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Annual Report

of the

Department of

Health

of

The City of New York

for the

Years 1911-1912

RECAP

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ANNUAL REPORT. DEPT. OF HEALTH:
1911-1912.

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ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
DEPARTMENT OF HEALTH
OF
THE CITY OF NEW YORK



FOR THE
YEAR ENDING DECEMBER 31, 1912

NEW YORK CITY
1913



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BOARD OF HEALTH.

Commissioner of Health and President of the Board,
ERNST J. LEDERLE, PH. D.

Health Officer of the Port,
ALVAH H. DOTY, M. D. To February 19, 1912.
JOSEPH J. O'CONNELL, M. D. Since February 19, 1912.

Police Commissioner,
RHINELANDER WALDO.

OFFICERS OF THE DEPARTMENT OF HEALTH.

ERNST J. LEDERLE, PH. D.,
Commissioner of Health.

HERMANN M. BIGGS, M. D.,
General Medical Officer.

EUGENE W. SCHEFFER,
Secretary.

JAMES McC. MILLER,
Chief Clerk.

CURTIS E. LAKEMAN,
Secretary to the Commissioner.

Sanitary Bureau.

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Sanitary Superintendent.

ALONZO BLAUVELT, M. D.,
Assistant Sanitary Superintendent, Manhattan.

TRAVERSE R. MAXFIELD, M. D.,
Assistant Sanitary Superintendent, Brooklyn.

MARION B. McMILLAN, M. D.,
Assistant Sanitary Superintendent, The Bronx.

JOHN H. BARRY, M. D.,
Assistant Sanitary Superintendent, Queens.

JOHN T. SPRAGUE, M. D.
Assistant Sanitary Superintendent, Richmond.

JOHN S. BILLINGS, JR., M. D.,
Chief of the Division of Communicable Diseases

RUSSELL RAYNOR,
Chief of the Division of Food Inspection.

S. JOSEPHINE BAKER, M. D.,
Director of Child Hygiene.

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Registrar of Records.

SHIRLEY J. WYNNE, M. D.,
Assistant Registrar of Records, Manhattan.

SYLVESTER J. BYRNE, M. D.,
Assistant Registrar of Records, Brooklyn.

ARTHUR J. O'LEARY, M. D.,
Assistant Registrar of Records, The Bronx.

ROBERT CAMPBELL, M. D.
Assistant Registrar of Records, Queens.

FREDERICK S. WILLIAMS, M. D.,
Assistant Registrar of Records, Richmond.

ROBERT J. WILSON, M. D.,
Superintendent of Hospitals.

WILLIAM H. PARK, M. D.,
Director of Laboratories.

HONORARY AND CONSULTING OFFICERS.

Medical Advisory Board.

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FRANCIS P. KINNICUTT, M. D.	T. MITCHELL PRUDDEN, M. D.
A. ALEXANDER SMITH, M. D.	ABRAHAM JACOBI, M. D.
L. EMMET HOLT, M. D.	JOHN WINTERS BRANNAN, M. D.
GLENTWORTH R. BUTLER, M. D.	JOHN A. McCORKLE, M. D.
WALTER B. JAMES, M. D.	

Honorary Consultants.

CHARLES F. CHANDLER, PH. D.	<i>Consulting Sanatarian.</i>
CLARENCE C. RICE, M. D.	<i>Consulting Laryngologist.</i>
GEORGE HENRY FOX, M. D.	<i>Consulting Dermatologist.</i>
ROGER S. TRACY	<i>Consulting Statistician.</i>
DANIEL DRAPER, PH. D.	<i>Consulting Meteorologist.</i>
STEVENSON TOWLE	<i>Consulting Engineer.</i>
ARTHUR B. DUEL, M. D.	<i>Consulting Otologist.</i>
IMON FLEXNER, M. D.	<i>Consulting Pathologist.</i>

MEDICAL BOARD OF THE WILLARD PARKER AND
RIVERSIDE HOSPITALS.

JOHN WINTERS BRANNAN, M. D., *President.*

HENRY W. BERG, M. D., *Secretary.*

Ex-Officio Members.

The Commissioner of Health.

The General Medical Officer.

The Sanitary Superintendent.

The Chairman of the Board of Governors of the Hospital for Diphtheria
and Scarlet Fever.

Consulting Physicians to the Willard Parker and Riverside Hospitals.

JOHN WINTERS BRANNAN, M. D. WILLIAM P. NORTHRUP, M. D.
ALBERT T. SWAN, M. D.

Consulting Pathologist,

SIMON FLEXNER, M. D.

Consulting Otologists,

ARTHUR B. DUEL, M. D.

Attending Physicians to the Willard Parker Hospital.

HENRY W. BERG, M. D.	MATTHIAS NICOLL, JR., M. D.
JOSEPH E. WINTERS, M. D.	ALFRED F. HESS, M. D.
LOUIS FISCHER, M. D.	JOHN H. HUDDLESTON, M. D.
HENRY D. CHAPIN, M. D.	RUFUS P. COLE, M. D.
ROYAL S. HAYNES, M. D.	

Attending Gynecologist,

WILLIAM E. STUDDIFORD, M. D.

Attending Otologists,

PHILIP D. KERRISON, M. D.
JOHN B. RAE, M. D.

Attending Surgeon,

THOMAS ALLISON SMITH, M. D.

Laryngologist and Intubator,

HENRY L. LYNNAH, M. D.

Bacteriologist,

WILLIAM H. PARK, M. D.

Attending Physicians to the Riverside Hospital.

S. ADOLPHUS KNOFF, M. D.	JOHN H. HUDDLESTON, M. D.
WILLIAM JOSEPH PULLEY, M. D.	BERTRAM H. WATERS, M. D.

ASSISTANT ATTENDING PHYSICIANS AND SURGEONS.

Assistant Attending Physicians, Willard Parker Hospital

FREDERICK H. BARTLETT, M. D.	JESSE GODFREY M. BULLOWA, M. D.
B. RAYMOND HOOBLER, M. D.	HENRY S. SATTERLEE, M. D.
ELI LONG, M. D.	ARTHUR W. BINGHAM, M. D.
PHILIP VAN INGEN, M. D.	FRANK S. FIELDER, M. D.
JAMES F. NAGEL, M. D.	GEORGE B. WALLACE, M. D.
GODFREY R. PISEK, M. D.	WILLIAM SHANNON, M. D.
OSCAR M. SCHLOSS, M. D.	STANLEY BRADY, M. D.
JEROME S. LEOPOLD, M. D.	

Assistant Attending Surgeons, Willard Parker Hospital.

WALTER C. CRAMP, M. D.	JOHN JOSEPH NUTT, M. D.
CARL G. BURDICK, M. D.	CHARLTON WALLACE, M. D.

Assistant Attending Laryngologist, Riverside Hospital.

ARTHUR J. HUEY, M. D.

DEPARTMENT OF HEALTH,
CITY OF NEW YORK,
149 CENTRE STREET, BOROUGH OF MANHATTAN.

NEW YORK, November 21, 1913.

To His Honor

The Mayor of the City of New York:

SIR: On behalf of the Board of Health I have the honor to transmit herewith, as required by Section 1168 of the Charter of the City of New York, a report of all the operations of the Department of Health of the City of New York for the year ending December 31, 1912.

Very respectfully,

ERNST J. LEDERLE, PH. D.,
Commissioner of Health.

GENERAL ADMINISTRATION

A brief summary of some of the more important features of the work of the Department of Health during the year 1912 is given in this section of the report. The work of the various branches of the service is described more in detail in the following sections which embody the reports of the several bureaus and divisions.

REDUCTION OF DEATH RATE.

It is very gratifying to be able to state that the record death rates of 1910 and 1911 were still further reduced in 1912, in which year a new low record was established for New York City. The deaths recorded during 1912 numbered 73,008, which gives a death rate of 14.11 per one thousand. This is the lowest death rate the city has ever experienced, the next lowest being that of the year 1911, when the rate was 15.13 per one thousand. The difference of 1.02 of a point between the two years compared may be interpreted to mean that had the death rate of 1911 prevailed during the year 1912 there would have been 5,276 more deaths than actually occurred. In analyzing the returns a decreased mortality will be found in the case of all the principal diseases which the Department of Health endeavors to control, namely, typhoid fever, measles, scarlet fever, smallpox, diphtheria, tuberculosis of the lungs and diarrhoeal diseases of children. On the other hand, the mortality from organic heart disease and Bright's disease will be found to be considerably increased, homicides slightly increased, while the deaths from cancer have remained stationary.

REDUCTION OF INFANT MORTALITY.

An excellent idea of the sanitary condition of the city may be obtained by studying the mortality of children under one year of age, percentages being based upon each 1,000 births reported. During 1912, the number of births was 135,625. Using these figures as a basis, the rate was 105 deaths for each 1,000 children born. According to the figures published for England and Wales, which include both suburban and urban areas, the rate in 1911 was 130 per 1,000. In Germany in 1910 the rate was 162, and in Berlin 157. It would seem from this that the mortality statistics of infants in New York City compare more than favorably with those of some European countries.

During the summer months the nurses who are regularly on school duty were each placed in charge of 150 babies and required to visit them at home, teaching the mothers how to keep the babies well. In all, 22,417 babies were under the charge of these district nurses, in addition to those registered as under the care of the milk stations. Among this number there were 207 deaths.

During the year 1911 there had been a distinct decrease in the number of deaths under one year of age in New York City. This decrease was due in large part to the active campaign carried on by certain societies interested in the establishment of milk stations. During 1912 the Department of Health conducted the additional stations itself, two of the largest societies hitherto engaged in this work having discontinued their efforts. The total number of stations was not increased, yet, not only did the infant death rate remain at the low figure reached in 1911, but there were fewer deaths of babies under one year of age than there were during 1911. This is the lowest infant death rate recorded in the his-

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tory of the city. The decrease in the infant mortality of New York City has been twice as great as the decrease in the remainder of the state.

One of the most gratifying features of this reduction in the number of deaths from preventable causes has been the fact that the excessive infant mortality of summer has been reduced to a most marked degree. In former years there has been an abrupt increase in the number of deaths, which increase, commencing with almost unfailing regularity about the first of July, reached its maximum in midsummer, and then falling very slowly resumed a fairly normal level with the beginning of cold weather.

During the summer of 1911 this usual summer increase was not more than half as great as it had been in previous years, while the number of babies who died each week during the heated term of 1912 was hardly any greater than the weekly average during the year.

SANITARY CONTROL OF THE MILK SUPPLY.

The most important single feature of the department's work in 1912 has been the improvement in the sanitary control of the milk supply. The past year has seen a notable measure of success in the actual application of comprehensive plans which have been under consideration and development for the past three years. Important and far-reaching improvements have been instituted by the grading of the milk supply and the extension of pasteurization.

SYSTEM OF GRADING MILK.

By the adoption of a resolution on January 4, 1912, the Board of Health required all milk brought into the city for sale to be sold under some one of the following grades or designations:

Grade A.—Suitable for Infants and Children.

- (1) Certified Milk.
- (2) Guaranteed Milk.
- (3) Inspected Milk, Raw (from tuberculin-tested cows).
- (4) Selected Milk, Pasteurized.

Grade B.—Milk Suitable for Adults.

- (1) Selected Milk, Raw, from cows which are certified by veterinarians after physical examination.
- (2) Pasteurized Milk.

Grade C.—For Cooking and Manufacturing Purposes Only.

All milk not conforming to the requirements of Grades A and B.

During the past year this grading plan has actually been put in force and compliance with its provisions insisted upon. Much emphasis has been placed upon the requirement of labeling in accordance with these provisions in order that the public might have as full information as possible as to the quality of milk which is purchased. Criminal proceedings have therefore been instituted whenever it was found that milk was improperly labeled.

In order to urge dealers who were selling Grade C milk for cooking, to advance to the Grade B class, a warning sign was placed in all stores in which Grade C milk was sold calling the attention of the public to this fact. All restaurants and hotels were required to obtain permits to sell milk and their permits were restricted to the sale of Grades A and B.

GENERAL ADMINISTRATION.

PASTEURIZATION.

The fundamental object of the grading system is to extend the scope of pasteurization, an expedient which modern knowledge of the transmission of infectious diseases shows to be absolutely necessary in a great city drawing its milk supply from distant points. The effect of the grading system in this direction has been reinforced by specific resolutions of the board, and the resulting extension of pasteurization has been very satisfactory. At the end of 1912 about one hundred pasteurization plants are either in actual operation or soon to be completed, including those in the city and in the country districts, and from one-third to one-half of the milk supply is pasteurized.

OTHER IMPROVEMENTS IN CONTROL OF MILK.

During 1912 rigid inspections were made of stores in which milk is sold and a large number of permits were revoked. Examination of empty containers being returned to the country was continued and a number of prosecutions were commenced for violation of the provision of the Sanitary Code requiring such containers to be cleaned. An important court decision recently rendered has sustained the legality and constitutionality of this provision of the code.

By increasing the severity of the scoring of milk stores, where "loose" or "dipped" milk is sold, an effort has been made to restrict the sale of such milk, but as this method was found not sufficiently successful, the Board of Health adopted a resolution, to take effect June 1, 1913, forbidding the sale of milk dipped from cans, except in special milk stores approved by the department for which a permit has been issued, or in places in which foodstuffs, other than milk products, are sold in original packages only.

INFANTS' MILK STATIONS.

The fifteen municipal infants' milk stations operated in 1911 by the Department of Health, in cooperation with similar stations under the control of private associations proved conclusively the value of such milk depots as centers of activity for the reduction of infant mortality. The city authorities accordingly made financial provision for the continuance of this work on an extended scale in 1912. In accordance with the provisions of the budget schedule for the year, forty additional milk stations were opened during the early spring and late winter months, making a total of fifty-five such stations under the control of this division. These stations are situated throughout the five boroughs and provide places where a mother may obtain pure milk for infant feeding at the lowest market price and in addition may receive such instruction as may be necessary from a physician and nurse to teach her how to keep her baby well and the exact method by which it should be fed.

The experience of the Department of Health in the conduct of these stations was most gratifying. During the year, 41,233 mothers brought their babies to the stations. During the same period a total of only 169 deaths occurred among the babies registered at the stations, a death rate which is phenomenally low, especially when it is remembered that these stations are all situated in those parts of the city where the birth rate and the infant death rate are very high.

SUPERVISION OF FOOD.

During 1912, twenty-one inspectors were employed continuously in the inspection of food. The six abattoirs which are subject to the inspection of this department and over

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which the Federal Government exercises no supervision have each been under the care of one inspector during all the working hours. The six inspectors thus detailed have been immediately under the supervision of three veterinarians. The scheme of inspection employed has been one of constant rotation, so that not only have the three veterinarians interchanged posts daily, but each month the six inspectors have been assigned to different abattoirs. It is believed that maximum efficiency and results have been obtained by this method.

The evil of uncovered foodstuffs on push carts and street stands has been fought unceasingly and hundreds of arrests have been made for this violation of the Sanitary Code. While the evil is still prevalent, there is no doubt that it has been much lessened by the continued warfare of the department as evidenced by the many covered stands now to be seen in every section of the city. Retail shops, the proprietors of which were displaying unfit foodstuffs for sale, have received the constant attention of this division and confiscations of such material and arrests of offenders have undoubtedly raised this branch of business to a higher standard than it heretofore possessed. Bakeshops have been systematically inspected and wherever unwholesome eggs and unfit fruits have been discovered active prosecution has followed, with the result that the use of such material has become extremely infrequent. This fact is shown by recent records.

The policy of forbidding the reshipment from the city of unfit canned goods has resulted in the destruction of approximately 2,000,000 pounds of such material during the past year. The leading wholesale grocers have given hearty cooperation to the department in this movement, and this, in a measure, accounts for the splendid results achieved.

The guarding of the waterfront has resulted in the confiscation and destruction of enormous quantities of fruits and vegetables unfit for food which otherwise might have been placed upon the market.

Table waters, now so generally used, have been very extensively analyzed with the result that a number were found absolutely unfit for drinking purposes. Some of these have been withdrawn from the market, while in many other cases the manufacturers have made the changes necessary to eliminate the contamination complained of.

Large numbers of samples of foodstuffs have been collected for examination by the chemist, and in every case in which poisonous ingredients or unadvertised preservatives were found, the prosecution of the offenders has immediately followed. This has resulted in the almost complete discontinuance of the custom, formerly very common, of using preservatives in decaying meats.

The wholesale egg market has received the undivided attention of one inspector, and a marked improvement in the methods formerly employed in this industry has resulted.

With the increased force of inspectors allowed for the coming year, it is intended to follow systematically hitherto impossible lines of investigation. Thus, certain inspectors will be assigned solely to bakeshops, others to restaurants, and still others to make a study of the methods employed in candy factories and prepared food factories. The plans relating to these new channels of effort made possible by the slight increase in force will no doubt produce gratifying results.

MEDICAL INSPECTION OF SCHOOL CHILDREN.

The department has maintained as usual a system of medical inspection and examination of all children in the public schools of the city for the purpose of excluding from school attendance those who show any symptoms of contagious disease, and for the purpose of making a complete physical examination of all the children on an average of once in two years. All children entering school for the first time undergo a physical examination, and another before their graduation, and as nearly as possible one every two years in the interim.

During 1912, 288,469 children received this physical examination. Of this number,

GENERAL ADMINISTRATION.

87,361 were found to be suffering from one or more untreated physical defects interfering with their general health, and therefore rendering them less likely to profit by their school training.

In addition, 119,359 children were found to have defective teeth, although otherwise normal.

The character of the defects found was as follows:

Defective vision.....	15,075
Defective hearing.....	888
Defective teeth.....	123,163
Defective nasal breathing.....	13,863
Hypertrophied tonsils.....	19,549
Malnutrition.....	6,106
Cardiac disease.....	1,242
Pulmonary disease.....	299
Orthopedic disease.....	547
Nervous disease.....	660

Of the children suffering from the above physical defects, 57,062 received treatment as a result of the efforts of the school nurses who visit the homes of the children and instruct the parents in the methods of hygiene and sanitation, urging the latter to take their children to the family physician for treatment. The cases thereafter are kept under the observation of the nurse until treatment has been received.

During the year the Department established six Children's Medical Clinics, located in those parts of the city where proper facilities for clinical treatment have been lacking. These clinics are designed exclusively for those school children whose parents are totally unable to pay for medical treatment. They are already crowded to their capacity.

The need of facilities for dental treatment has been acute. The budget appropriation for 1913 allowing the appointment of ten dentists makes it possible for the department to make a beginning in establishing dental clinics in connection with the clinics for school children already mentioned.

TYPHOID FEVER.

An advisory committee on the methods of the department in supervising typhoid fever has been established, consisting of a number of eminent sanitary and medical experts who have volunteered their services. On the recommendation of this committee, numerous improvements have been made in the methods in use in this department and better co-operation with other city departments concerned, particularly the Department of Water Supply, Gas and Electricity, has been secured.

Immunization against typhoid fever, or the inoculation of a healthy person with sterilized typhoid cultures in order to prevent infection with typhoid fever, has passed beyond the experimental stage and has become established as a prophylactic measure of proved efficiency.

Feeling that its wider use, under proper precautions, is called for, the Department of Health of the City of New York provided for the free performance of immunizations on request, under conditions similar to those governing the free administration of diphtheria antitoxin.

For the present all inoculations are made at the homes of applicants by the typhoid inspectors, or at the Central Office of the Department, Centre and Walker Streets, Borough of Manhattan, or the culture is furnished free to physicians for their own use. All requests for immunization by inspectors must be made by, or approved by the attending physician. In all other cases, the applicants are required to come to the Central Office, where the fact that they have no attending physician, and the reasons for and against immunization are very carefully investigated before the same is performed.

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Immunization is offered to all other members of every family in which a case of typhoid fever occurs.

HISTORY OF INOCULATION AGAINST TYPHOID FEVER.

The first immunizations against typhoid fever in man were made by Pfeiffer and Kolle, but to Wright is due the credit for the introduction of the systematic practice of immunization on an extended scale, and as before stated, its value is now thoroughly established.

Official committees appointed by the governments of the United States, England, Germany, and France have investigated the matter, and all unite in recommending the employment of immunization as a rational and practical method of diminishing by a sensible proportion, the frequency and gravity of typhoid fever in all individuals whose profession, or whose usual or accidental methods of alimentation, or daily or frequent association with the sick or with typhoid carriers, expose them to direct or indirect contagion by the bacillus of typhoid fever.

The procedure has been widely used, especially in armies, and the conclusions of the present day are based on the results of more than 100,000 immunizations.

The following conclusions are accepted by practically all authorities:

1. The practice confers a notable immunity against typhoid infection.
2. It reduces by three-quarters the case incidence of typhoid fever in groups of individuals submitted to this method of immunization.
3. Under similar conditions, typhoid fever occurring in immunized persons has approximately one-half the fatality of typhoid cases in persons not so protected.
4. Typhoid fever thus is less apt to occur, and when it does occur, runs a milder course among the sick who have been immunized than among those who have not.

Among persons who may be designated as particularly to be benefited by immunization the following may be enumerated:

- (a) Physicians, hospital internes, medical students, and orderlies in hospitals.
- (b) Members of families among whom typhoid carriers have been proved to exist, or those exposed to the disease or who expect to be brought in contact with it.
- (c) Persons who expect to travel or settle in places which are habitual foci of typhoid fever.
- (d) Those living in regions where typhoid fever is prevalent.

VENEREAL DISEASES.

By resolution of the Board of Health on February 29, 1912, effective May 1, 1912, all hospitals and public institutions were required to report cases of venereal diseases coming under their observation, and all physicians were requested to furnish similar information, concerning private patients under their care except that the name and address of the patient need not be reported. The terms of the resolution provided that all such information and reports should be regarded as absolutely confidential and should not be deemed public records or made accessible to the public. The Department also undertook the free bacteriological examination of specimens for the diagnosis of these diseases and has established a special clinic for diagnosis by means of the Wassermann and other tests. On December 17, 1912, a circular letter was sent to all physicians in New York City reminding them of this action by the Board of Health and again requesting the reporting of all private cases coming under their observation.

REPORT OF THE VARIOUS DIVISIONS.

OFFICES OF THE SECRETARY AND CHIEF CLERK.

Searches Made and Transcripts Issued of the Records of Births, Marriages and Deaths

1912.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York City.
Applications for searches.	32,974	18,424	4,303	2,234	778	58,713
Transcripts signed and authenticated—						
Births.....	5,233	4,052	359	295	305	10,244
Marriages.....	3,259	2,023	55	82	29	5,448
Deaths.....	22,087	14,487	4,406	2,485	521	43,986
Not found—Certificates issued.....	4,522	3,014	156	106	57	7,854
Communications received and answered.....	3,538	2,738	222	489	119	7,106
Fees received.....	\$15,722.00	9,296.00	1,881.20	1,140.00	381.50	28,420.70

Action Taken by the Board of Health on Reports, Communications, Permits, Notices and Orders.

	1912.
Special reports and communications submitted to the Board of Health for action..	976
Premises declared a public nuisance.....	129
Premises ordered vacated.....	232
Lodging-house permits granted.....	207
Cow permits granted.....	141
Miscellaneous permits granted.....	16,063
Permits denied.....	2,433
Permits revoked.....	6,845
Board orders extended or modified.....	3
Extension or modification of Board orders denied.....	68
Delayed and imperfect certificates of births, marriages and deaths approved and ordered filed.....	121
Corrected certificates of births, marriages and deaths approved and ordered filed..	1,158

Contracts.

In 1912, 110 contracts for supplies were made at a total cost of \$536,467.65; twenty-eight contracts for building construction, building materials, and architect's services were made at a cost of \$322,733.33. During the year many items which had previously been purchased on open market orders were included under contract purchase, namely, horseshoeing, guinea pigs and rabbits, green groceries and fruits, textiles, furniture, wagons, etc.

New Buildings.

The following schedule shows the new buildings and permanent improvements to existing plant for which contracts were let during 1912:

Description and Location.	1912.	Cost.
Construction for two concrete pavilions, Riverside Hospital.....		\$103,317.94
Construction for an Isolation Pavilion, Kingston Ave. Hospital.....		62,625.50
Construction for an extension to Nurses' Home, Riverside Hospital.....		50,496.00
Construction for an Underground Tunnel, Willard Parker Hospital.....		13,086.00
Construction for Sewer Lines at Kingston Avenue Hospital.....		15,997.00
Construction for Water Lines at Otisville, New York.....		26,179.00
Construction for Tunnel at Willard Parker Hospital.....		17,949.00
Construction for Pumps at Kingston Avenue Hospital.....		2,420.00
Total.....		\$292,070.44

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Statement showing Sale and Distribution of Laboratory Products.

Antitoxin.

Stock and ledger accounts at beginning of year.....	\$28,053.02	
Value of Antitoxin received from laboratory.....	240,360.78	
	\$268,413.80	
Less Antitoxin to replace old stock.....	12,988.05	
		\$255,425.75
Free Distribution.....	\$179,659.75	
Cash.....	29,273.60	
Discounts to agents.....	1,170.33	
On sale with agents and ledger accounts.....	42,557.42	
Stock on hand.....	2,764.65	
		\$255,425.75

Preventive Hydrophobia Treatments.

Amount owing at beginning of year.....	\$11,474.00
Treatments reported during year.....	10,831.00
Total	\$22,305.00
Cash receipts during year.....	8,698.00
Amount owing at end of year.....	\$13,607.00

Virus.

Stock and ledger accounts at beginning of year.....	\$4,618.52	
Value of Vaccine Virus from laboratory.....	30,182.15	
	\$34,800.67	
Less Virus to replace old stock.....	2,739.65	
		\$32,061.02
Free Distribution.....	\$15,586.25	
Cash.....	9,674.96	
Discount to agents.....	3,915.41	
On sale with agents and ledger accounts.....	1,999.10	
Stock on hand.....	1,085.30	
		\$32,061.02

Corporate Stock Issued for Permanent Improvements, 1912.—(None.)

Total Financial Resources of the Department during 1912.

Appropriation	Bond Issue	Sales of Laboratory Products	Care and Maintenance of Immigrants	Total
\$3,171,217.00	\$57,712.00	\$47,646.56	\$278.00	\$3,276,853.56

SECRETARY AND CHIEF CLERK.

DEPARTMENT OF HEALTH, Comparative Table of Appropriations and Expenditures for 1912.

Title.	Appropriation.		Total.	Expenditures.		Total.
	Salaries.	Supplies.		Salaries.	Supplies.	
General Administration:		\$95,297.00			\$95,073.23	
Office of the Commissioner	\$17,280.00			\$17,280.00		
Office of the Secretary	123,231.87			123,231.87		
Office of the General Medical Officer	7,400.00			7,400.00		
Office of the Sanitary Superintendent	57,552.32		\$300,761.19	57,552.32		\$300,537.42
Administration and Inspection:						
Bureau of Records	61,582.75	2,550.57	64,133.32	61,582.75	2,539.28	64,122.03
Division of the Chief Clerk	9,814.10	42,396.93	52,211.03	9,814.10	42,203.11	52,017.21
Division of Child Hygiene	368,443.45	13,467.10	381,910.55	368,443.45	12,915.46	381,358.91
Division of Infants' Milk Stations	137,769.11	20,760.00	158,529.11	137,769.11	20,244.88	158,013.99
Division of Contagious Diseases	214,111.87	40,384.89	254,496.76	214,111.87	39,720.48	253,832.35
Division of Communicable Diseases	298,594.91	49,833.40	348,428.31	298,594.91	46,513.23	345,108.14
Division of Gen'l Sanitary Inspection	131,919.04	7,170.14	139,089.18	131,919.04	7,006.97	138,986.01
Division of Food Inspection	43,328.81	2,102.10	45,430.91	43,242.58	2,029.14	45,271.72
Division of Milk Inspection	84,433.01	27,122.09	111,555.10	84,433.01	36,776.12	121,209.13
Division of Sanitary Police	76,239.18		76,239.18	76,239.18		76,239.18
Laboratories:						
Research and Vaccine	101,646.87	33,663.71	135,310.58	101,646.87	29,835.57	131,482.44
Chemical	12,788.90	2,702.98	15,491.88	12,788.90	2,490.59	15,279.49
Drug	7,800.00	29,440.00	37,240.00	7,800.00	27,490.20	35,290.20
Hospitals:						
Willard Parker and Reception	78,734.75	90,926.59	169,661.34	78,734.75	88,425.72	167,160.47
Hospital Clinics for Contagious Eye Diseases	28,988.31	5,506.30	34,494.61	28,988.31	4,740.49	33,728.80
Riverside	86,924.61	148,136.31	235,060.92	86,925.77	143,915.86	230,841.63
Kingston Avenue	72,010.46	77,322.31	149,332.77	72,010.46	74,948.87	146,959.33
Tuberculosis Sanatorium, Otisville	82,268.62	145,026.27	227,294.89	82,268.62	143,869.07	226,137.69
Hospital Physicians and Nurses	124,572.37		124,572.37	124,572.37		124,572.37
Hospital Service—Richmond		1,997.00	1,997.00		1,997.00	1,997.00
Totals	\$2,227,435.31	\$835,805.60	\$3,063,241.00	\$2,227,350.24	\$822,795.27	\$3,050,145.51

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LEGAL WORK.

Criminal Actions.

An examination of the accompanying table, under the heading "Criminal Actions, Magistrates' Courts," will disclose the disposition of prosecutions brought during the year. It will be observed that 1,482 defendants were discharged. This does not mean that the Department failed to substantiate the charge brought, but is explained by the fact that 883 actions based upon failure to comply with Board orders or notices were discontinued, the defendant having in each instance fully met the requirements of the Department. The remaining figures contained in the table are self-explanatory.

The table under the caption, "Criminal Actions in Court of Special Sessions," embodies the more important criminal prosecutions. These actions emanate from the Magistrates' Courts, being transferred to the Court of Special Sessions upon a motion made in behalf of the Department in accordance with Section 1265 of the Charter of the City of New York as amended by Section 95 of the Inferior Courts Act. An examination of this table discloses that 1,047 actions were disposed of during the year. Of this number 838 defendants were convicted and 209 discharged. In explanation of the number discharged, it may be stated that only 82 defendants were acquitted after a trial upon the merits of the case, the remaining 127 being dismissed upon motion made at the request of the Department, the defendants having fully met the requirements of the Board of Health. The amount of fines imposed during the year was \$21,675 as compared with \$13,170 imposed by the same court in 1911. Ten defendants received jail sentences, one of whom was both fined and imprisoned. In a number of instances the maximum fine of \$500 was imposed, and, as a whole, the court treated those found guilty of the offense as charged with great severity.

The majority of these prosecutions were directed against individuals, yet a surprising number of corporations were also proceeded against for violating the provisions of the statutes. Criminal prosecutions of corporations are daily increasing. Legal questions involving corporate as distinguished from individual acts are constantly arising and demanding the attention of the courts. During the past year the prosecutions of corporations by the Department of Health were uniformly successful and in many instances the extreme penalty the law provides was imposed.

Brief mention has heretofore been made in regard to the prosecutions of individuals and corporations charged with violating the provisions of Section 181 of the Sanitary Code, in that they caused, suffered or allowed dense smoke to be discharged from buildings, vessels, engines or vehicles within the jurisdiction of the City of New York. Special inspectors were detailed by the Department to this branch of work. Numerous actions were instituted in the courts which resulted in the conviction of a number of defendants, while in other instances the nuisance was abated before trial. The result of these prosecutions is apparent.

Criminal Actions in Court of Special Sessions.

Cases:	New York.	Manhattan.	Bronx.	Brooklyn.	Queens.	Richmond.
Pending, January 1, 1912.	186	124	9	49	2	2
Transferred from Magistrates' Courts.....	1,004	474	94	313	65	18
Total cases.....	1,190	598	103	402	67	20
Disposition:						
Discharged.....	209	64	12	105	19	9
Fined.....	597	316	56	188	33	4
Sentence suspended.....	232	102	23	87	15	5
Jail sentence *.....	9	4	.....	4	.....	1
Pending December 31, 1912.....	143	112	12	18	.....	1
Total cases.....	1,190	598	103	402	67	20
Amount of fines imposed.....	\$21,675.00	\$12,525.00	\$1,975.00	\$6,410.00	\$620.00	\$145.00

* In one instance the defendant both fined and imprisoned. The disposition of the said case is credited under item designated "Fined."

LEGAL WORK.

Criminal Actions in Magistrates' Courts.

Cases:	New York.	Manhattan.	Bronx.	Brooklyn.	Queens.	Richmond.
Pending, January 1, 1912.	89	13	12	52	12	.....
New cases in Magistrates' Courts.....	7,179	4,257	465	2,142	289	26
Total cases.....	7,268	4,270	477	2,194	301	26
Disposition:						
Held for Special Sessions.	1,004	474	94	353	65	18
Discharged.....	1,482	667	187	438	183	7
Fined.....	4,108	3,031	164	883	29	1
Sentence suspended.....	530	23	17	484	6	.....
Jail sentence.....	7	2	.....	5	.....	.....
Pending, December 31, 1912.....	137	73	15	31	18	.....
Total cases.....	7,268	4,270	477	2,194	301	26
Amount of fines.....	\$9,023.25	\$6,522.50	\$434.00	\$1,945.75	\$119.00	\$2.00

Civil Actions.

Civil actions include actions in conversion instituted to compel payment of moneys due the Department of Health for laboratory supplies; actions to compel compliance with sanitary orders, directed principally to non-resident owners of property situated in the City of New York; actions against individuals charged with the duty of reporting births, marriages, deaths, and infectious diseases; actions against persons for issuance of false certificates or reports of births, marriages or deaths; actions against undertakers for the retention of dead bodies of human beings for a longer period than four days, or the removal or burial thereof without a permit; and other actions of a miscellaneous character involving violations of the Sanitary Code and the Charter of the City of New York.

In considering the civil branch of the law applicable to health work, attention is especially called to actions instituted against practising physicians and midwives for failure to report births to the Department of Health, in accordance with the provisions of Sections 1237 and 1239 of the Charter of the City of New York.

This statute requires that physicians and midwives who attend professionally at the birth of a child must report the same to the Department within ten days after the birth. Failure to make such reporting may involve the most serious consequences to the child, affecting its legitimacy, property rights, education and citizenship. The public is also vitally interested from a health and statistical standpoint. It is evident that serious results would occur through the neglect or omission to file the report of birth, whether such neglect be intentional or unintentional, as the injury to the child is the same in either case. The rigid enforcement of this statute is therefore essential to the public welfare in order that the rights of the citizens of the City of New York may be protected.

The requirements of the statute were repeatedly brought to the attention of physicians and midwives by the Department of Health, by personal communications and through the public press. Finding that these efforts were unsuccessful in securing a complete registration, the Commissioner of Health determined to take drastic action, and in the latter part of the year 1910 forwarded all violations of the statute to the Corporation Counsel. Civil actions were thereupon instituted and continued from that time until the early part of the present year. These prosecutions resulted in 310 physicians and midwives paying penalties for their neglect to perform their legal duty. The courts uniformly sustained these actions and held that it was obligatory for physicians and midwives to comply strictly with the terms of the statute. This is another application of the general rule governing health actions, that the welfare and health of the community as a whole are paramount. It is better that a physician or midwife should suffer some slight inconvenience than that the child should be deprived of its legal and equitable rights.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

The prosecution of these cases has undoubtedly been of inestimable benefit in causing prompt registration of births.

In a number of other instances, physicians and midwives were prosecuted for filing false reports relative to births and deaths. In such cases the severest penalties were exacted because of the dangerous character of the offense which prima facie called into question the honesty and integrity of the offender. It was, however, found that in nearly all cases the defendants were not actuated by any ulterior motive, but were simply careless and negligent in the performance of their duties. The conclusion reached from this class of cases is that many physicians and midwives neglect to keep a record as required by Section 1237 of the Charter, of the births at which they attend professionally.

As an additional argument for the necessity of the strict enforcement of the laws applicable to the registration of births, we have but to consider the number of applications made to the Commissioner of Health to have placed on file in the Department of Health births which through failure of the physician or midwife in attendance were never filed. The Corporation Counsel received during the year, 1,696 such applications from the Commissioner for examination to determine whether the legal requirements of Section 1241 of the Charter had been fully complied with. Of this number 1,680 were granted and 16 denied. Inasmuch as the majority of persons affected are those in poor or moderate circumstances, the neglect or omission of the physician or midwife is both a legal and a moral wrong.

A number of undertakers and cemetery-keepers were found to be negligent in the performance of their legal duties and obligations. In each instance the defendants were required to pay penalties, which will undoubtedly have the effect of preventing a repetition of the offense.

Civil Actions.

	New York.	Manhattan.	Bronx.	Brooklyn.	Queens.	Richmond
Violations received:						
Violations pending January 1, 1912.....	1,072	176	79	369	375	73
Violations received and notices sent.....	8,853	3,994	1,117	2,603	1,028	111
Total violations.....	9,925	4,170	1,196	2,972	1,403	184
Disposition:						
Complied with before suit.....	8,281	3,678	873	2,785	919	26
Suit begun.....	28	5	21	1	1	.....
Pending (without suit), December 31, 1912, awaiting instructions by Department of Health.....	1,616	487	302	186	483	158
Total violations.....	9,925	4,170	1,196	2,972	1,403	184
Actions begun:						
Civil actions pending January 1, 1912.....	45	24	5	3	9	4
Civil actions begun to recover penalties on violations.....	28	5	21	1	1	.....
Other civil actions begun.....	90	58	15	12	3	2
Judgments vacated.....	3	.....	.....	.....	.....	3
Total suits.....	166	87	41	16	13	9
Disposition:						
Discontinuance, compliance secured.....	129	76	29	11	6	7
Judgments recovered.....	3	1	1	1	.....	.....
Pending, December 31, 1912.....	34	10	11	4	7	2
Total suits.....	166	87	41	16	13	9
Amount of costs, penalties and judgments collected in civil actions and paid to Secretary of Board.....						
Amount of claims collected for antitoxin and virus.....	\$1,020.00	\$825.00	\$70.00	\$105.00	\$10.00	\$10.00
	30.24	30.24	.....	.....	.....	.....

LEGAL WORK

CERTAIN IMPORTANT DECISIONS.

Slaughter-House Odors.

Offensive odors due to careless management and operation of slaughter-houses located in the Borough of Manhattan have long been a source of complaint to the Department of Health. The burden of detecting these odors has heretofore devolved upon the inspectors of the Department, and necessitated almost constant surveillance. The efforts of the Department to prevent the escape of these odors into the outer air had been confined to the issuance of notices of violations of the Sanitary Code to offenders. The Commissioner of Health determined that the burden of preventing odors from escaping should be borne by the slaughter-house proprietors, it being their duty, by virtue of the character of their business, to operate their plants in such a manner as not to violate the strict provisions of the Sanitary Code. He therefore determined to refer all violations discovered by inspectors to the Corporation Counsel for prosecution. Three civil actions to recover penalties were subsequently instituted against the owners of large establishments and resulted in sustaining absolutely the attitude of the Commissioner. In one instance the defendants made a very determined fight to escape from their predicament. The action was tried in the Municipal Court and a judgment obtained against the defendants. An appeal was immediately taken to the Appellate Term of the Supreme Court, which court unanimously sustained the judgment of the lower court. Motion was thereafter made both to the Appellate Term and the Appellate Division for leave to appeal, each of which motions was denied with costs. The determination of the Appellate Term therefore stands as the law governing all future prosecutions of this character.

Stripped of its legal phraseology the decision holds that the escape of offensive odors from slaughter-houses within the City of New York, even though for an inappreciable length of time and in the absence of intent, is a violation of Section 85 of the Sanitary Code. It places the burden upon the proprietors to detect and prevent such odors from escaping into the outer air. The remedying of these conditions in no way affects the question of liability, as the law places an absolute and mandatory obligation upon those who conduct slaughter-houses in the City of New York to so conduct them that no offensive odors shall escape.

Signing of Death Certificate.

The validity of Section 163a of the Sanitary Code prescribing that a certificate of death must be signed by a physician upon whom was conferred the degree of Doctor of Medicine, as a condition to issuing a burial permit, was upheld by the Court of Appeals. The legality of this Section had been attacked by Charles F. Bandell, an osteopathic physician, acting in behalf of himself and other osteopathic physicians of the city. This decision establishes the right of the Department of Health to require all death certificates to be signed by physicians upon whom has been conferred the degree of Doctor of Medicine.

Cleaning of Milk Receptacles.

A very important decision was rendered by the Court of Special Sessions, First Division, in the cases *People vs. Roth*, *People vs. Frudenberg*, and *People vs. Meyers*, the defendants being employees of a large milk concern doing an extensive retail business in the City of New York. The defendants were charged with having received and having in their possession unclean milk receptacles which, in violation of Section 183 of the Sanitary Code, had not been washed after holding milk. The defendants demurred in each instance to the information upon the grounds that the facts stated in said information do not constitute a crime, and that the latter portion of the said section which provides: " * * * nor shall any person receive or have in his possession any such receptacle which had not been washed after holding milk or cream or which is unclean in any way," is void because the said ordinance conflicts with the Agricultural Law of the State, and, furthermore, that the said

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ordinance conflicts with the Constitutions of the State of New York and the United States, respectively, because it deprives or tends to deprive the defendants of their property without due process of law.

Hon. Isaac F. Russell, Chief Justice of the Court of Special Sessions, wrote an exhaustive opinion in these cases sustaining the contention set up in behalf of the Department of Health, that the said section was a reasonable and valid exercise of police power and in no way conflicted with the constitutional rights of the defendants, nor was it in conflict with the Agricultural Law.

One of these cases subsequently came on for trial in the Court of Special Sessions for the purpose of testing the validity of the ordinance in question in the higher courts. The court found the defendant guilty. The defendants immediately appealed to the Appellate Division, in which court at the date of this report the cases were pending awaiting final determination.

Rotten Eggs.

A criminal prosecution was on April 28, 1911, instituted against the F. E. Rosebrock Company, a corporation, charging the said company with having violated the provisions of Section 42 of the Sanitary Code, in that the said defendant on the 15th day of April, 1911, unlawfully did bring into the City of New York and hold and offer for sale a certain quantity of eggs which were not then healthy, fresh, sound, wholesome and safe for human food. The said defendant is a domestic corporation engaged in the sale of butter, eggs and bakers' supplies, at 325-327 Greenwich Street, Borough of Manhattan, City of New York. The case came on for trial in the Court of Special Sessions on the 18th day of December, 1911, and the defendant was found guilty and the maximum penalty of \$500, was imposed by the court. The defendant immediately appealed to the Appellate Division, which unanimously sustained the judgment of the Court of Special Sessions.

Unwholesome Meat.

One, Isidor Adler, was convicted in the Court of Special Sessions on the 19th day of October, 1911, of having violated Section 42 of the Sanitary Code, in that he did bring into the City of New York, a "quantity of meat, and hold and offer for sale, keep and store therein, although the said meat was then and there not healthy, fresh, sound, wholesome and safe for human food." In passing sentence on the defendant the court stated, "This is one of the most vicious cases we have had before the court. The defendant is sentenced to the penitentiary for the term of three months." From such judgment of conviction the defendant appealed to the Appellate Division and the court unanimously affirmed the said judgment of conviction, no opinion being written. The defendant thereupon made a motion for a new trial to the Court of Special Sessions on the ground of newly discovered evidence. The said court granted the motion. Upon the retrial, the defendant was again found guilty, but the court modified their former judgment and fined the defendant \$200, which he paid.

Examination of Records.

In the matter of the application of William H. Allen to examine certain records on file in the Department of Health, the Court of Appeals affirmed, without opinion, the judgment of the Appellate Division, which court denied the application of the said Allen and refused to allow such examination, sustaining the right of the Department to determine what safeguards and regulations should protect the privacy of its records. The opinion of the Appellate Division, written by Mr. Justice Scott, published in the yearly report of 1911, is, therefore, by the affirmance of the Court of Appeals, the final determination of the Courts upon the question.

Court Procedure in Health Cases.

One, Morris Cohen, arrested pursuant to a warrant issued on an information filed by an inspector of the Department of Health, charging him with violating the provisions of Section 68 of the Sanitary Code, obtained a writ of habeas corpus for the purpose of testing the right of the Department to have the case transferred to the Court of Special Sessions in accordance with the provisions of Section 95 of the Inferior Courts Act, thereby excluding his right to an examination of the witness upon whose depositions the warrant had been issued. The writ of habeas corpus came on for argument before a Special Term of the Supreme Court, First Department, which Court dismissed the said writ and remanded the defendant for trial in the Court of Special Sessions. The defendant thereupon appealed to the Appellate Division, which court unanimously sustained the judgment of the Special Term. The questions involved in the decision are of vital importance to the Department of Health, and the decision will prove of inestimable value, because it sets at rest for all time a question of law which has troubled the lower Courts for many years, and absolutely sustains the validity of the section involved, as well as holding that the defendant's constitutional rights were not invaded.

SANITARY BUREAU.

YEAR ENDING DECEMBER 31, 1912.

DIVISION OF INSPECTIONS.

As the result of the action of the Board of Health during the month of May, a number of changes were made in regard to the inspection and supervision of places in which food-stuffs are handled, prepared, stored or offered for sale, and the supervision of all permits required by these places was assigned to the Division of Food Inspection. In consequence of this, six inspectors of the Division of Inspections were temporarily assigned to duty elsewhere, thus reducing the force of sanitary inspectors from 30 to 24 in the Borough of Manhattan.

About the usual number of citizens' complaints were received and investigated by the inspectors and patrolmen assigned to this division, and these complaints in a large city like New York embrace all manner and kinds of subjects, both within and without the province or jurisdiction of this department. In addition to the investigation of citizens' complaints, the inspectors are required to make reinspections on notices or orders that have been previously issued.

STABLES.

The usual attention was paid to buildings occupied for stable purposes with the result that not as many complaints were received as would be expected from a business of this nature conducted in a congested city. Routine inspections are constantly made for the purpose of enforcing cleanliness in this character of premises. The Sanitary Code requires a permit to be obtained when horses are to be stabled in a cellar. It having been established that flies are disseminators of disease, the Sanitary Code has been amended so as to require that in any stable where manure is not removed daily it shall be adequately screened or otherwise protected so as to prevent the access of flies.

LODGING HOUSES.

Lodging houses are operated under permits issued by the Board of Health, and before such permits are issued it must be shown that the proposed lodging house complies with the requirements of the Sanitary Code, which, among other things, insist that 400 cubic feet of air space shall be allotted to each lodger. One inspector was assigned during the year to the duty of supervising lodging houses. The law requires that two inspections of each lodging house shall be made each year. During 1912 the number of inspections made averaged twenty-two for each house.

Lodging-House Inspection.

	1910.		1911.		1912.	
	Permits.	Inspections.	Permits.	Inspections.	Permits.	Inspections.
New York.....	140	800	123	1,505	136	2,925
Manhattan.....	114	636	96	1,204	107	2,381
Brooklyn.....	25	141	26	260	28	469
The Bronx.....	1	23	1	41	1	64
Queens.....	....	....	....	....	....	....
Richmond.....	....	....	....	....	....	11

GENERAL SANITARY INSPECTION.

SMOKE NUISANCE.

During 1912, the smoke nuisance has been the subject of much concern and activity upon the part of the department, and during the early part of the year the situation appeared to be well in hand. About the beginning of May, however, it was noticed that more than the usual amount of dense smoke was being discharged from a number of business houses throughout the Borough of Manhattan. Upon investigation, it was alleged that the cause lay in the fact that the coal-producing sections were unable to furnish a sufficient amount of anthracite coal to meet the commercial demand, with the result that a large amount of bituminous coal had been placed upon the market. While there is no law prohibiting the use of the latter fuel, its character is such that if used without proper care upon the part of firemen and engineers large quantities of dense smoke will be discharged. All notices or orders relative to the discharge of dense smoke were marked for reinspection within twenty-four hours and, if their requirements were not finally complied with, summons were issued requiring the appearance of the offender in one of the Magistrates' courts. At this point the defendant usually requested an adjournment for one or two weeks and in many cases this was granted by the Magistrate, or the defendant was placed under bond and his case referred to the Court of Special Sessions. As a result of this activity, many notices were complied with before a summons was issued. When such a case is referred from the Magistrates' Court to the Court of Special Sessions, two, three, and sometimes four or five weeks will elapse before the case is called, and in almost every instance during the past year the defendant then applied for an adjournment of from two weeks to a month which was usually granted, and in many instances two or three such adjournments would be obtained. It is but rarely in cases of this kind that the defendant complies with the order of the Board of Health until the court decision is rendered.

PERMITS.

In October, 1912, the Board of Health adopted the policy of issuing yearly permits only and directed that all permits then in force and having an indefinite period to run should be revoked, and that persons holding such permits should make application for permits which would expire one year from date of issue.

TRANSPORTATION OF REFUSE MATERIAL.

The problem of the collection, transportation and removal of refuse material in a large and congested city like New York is one that deserves special attention. The Department of Street Cleaning has charge of the removal of ashes and garbage. All other refuse material, together with a considerable amount of ashes and garbage, is removed in vehicles operated by private individuals under permits issued by this department. During the year 1912, the Board of Health adopted new and more stringent rules and regulations in relation to the transportation of refuse material, including the issuance of a metal enamel permit, five inches wide and fourteen inches long, to be displayed upon the vehicle in such a situation as would be readily observed.

MOSQUITO EXTERMINATION AND PREVENTION.

This work is in charge of a sanitary engineer who, during the latter half of 1912, was assisted by a sanitary inspector. Nine laborers and one foreman were employed continuously throughout the year. On August 5th twenty extra laborers were employed at \$2.00 per day and two assistant foremen at \$2.50 a day. These extra men worked seventy-eight days, when their services were dispensed with. The entire laboring force, both permanent and temporary, was employed exclusively in the Borough of Richmond.

The following tables show the location and the amount of work performed during the year:

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WORK PERFORMED BY THE POLICE SQUAD DETAILED TO THE DEPARTMENT.

During 1912, the force, consisting of fifty men, under the charge of a lieutenant of police, was distributed as follows:

Manhattan.....	24
Brooklyn.....	13
Bronx.....	5
Queens.....	5
Richmond.....	3

The officers cover sections laid out in the different boroughs and known as sanitary districts, within which they confine themselves to the enforcement of all sections of the Sanitary Code and perform such other work as the department assigns to them. They enforce quarantine, when necessary, and assist by their presence in enforcing vaccination of the occupants of premises in which smallpox is discovered. They also assist in enforcing the removal, when necessary, of patients to the hospitals. They destroy all glandered horses condemned by the department, also all rabid dogs and, at certain periods of the year, all stray dogs, if so ordered by the Board. They enforce the vacation of premises declared insanitary and uninhabitable by the Department of Health. They investigate citizens' complaints of violations of the Sanitary Code, inspect daily all manure, ash and garbage dumps, enforcing those sections of the Sanitary Code relating thereto, and, in fact, enforce compliance with all sections of the Sanitary Code so far as is possible by a police officer.

During the first quarter of the year, the records of the work performed by the patrolmen of the Health Squad formed part of those of the Division of Inspections. During the last nine months, such records were forwarded directly to the Board by the lieutenant in command.

Notices and Orders Disposed of During Year 1912.

	Number of Notices and Orders Disposed of.	Disposed of Within 30 Days.		Disposed of Within 60 Days.		Not Disposed of Within 60 Days.	
		No.	Per Cent.	No.	Per Cent.	No.	Per Cent.
New York.....	14,087	9,214	65.4	3,206	22.8	1,667	11.8
Manhattan.....	5,684	4,414	77.7	983	17.3	287	5.7
Brooklyn.....	4,518	2,734	60.5	1,252	27.7	532	11.8
The Bronx.....	1,519	907	59.7	352	23.2	260	17.1
Queens.....	1,028	686	42.1	444	27.3	498	30.6
Richmond.....	738	473	64.1	175	23.7	90	12.2

Notices and Orders Pending December 31, 1912, and When Issued.

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	No.	Per Cent. of Total.	No.	Per Cent. of Total.	No.	Per Cent. of Total.	No.	Per Cent. of Total.	No.	Per Cent. of Total.	No.	Per Cent. of Total.
Notices and orders pending Dec. 31, 1912.....	921	100.0	192	100.0	353	100.0	116	100.0	140	100.0	120	100.0
Number first is- sued in— 1912												
December.....	477	51.8	122	63.5	211	59.7	65	56.0	49	35.0	30	25.0
November.....	194	21.0	53	27.6	58	16.4	15	12.9	35	25.0	33	27.5
October.....	93	10.1	12	6.3	37	10.5	15	12.9	10	11.4	13	10.8
September.....	35	3.8	1	0.5	13	3.7	7	6.0	3	2.1	11	9.2
August.....	70	8.2	3	1.6	19	5.4	10	8.6	13	9.3	31	25.8
July.....	13	1.4	...	...	7	2.0	2	1.7	3	2.1	1	0.8
June.....	8	0.9	...	...	1	0.3	...	...	7	5.0	...	...
May.....	5	0.5	1	0.5	...	...	2	1.7	1	0.7	1	0.8
March.....	1	0.1	...	...	1	0.3	...	...	...	...	...	...
February.....	1	0.1	...	...	1	0.3	...	...	...	...	...	...
Total, 1912.	903	98.0	192	100.0	348	98.6	116	100.0	127	90.7	120	100.0
Year, 1911....	17	1.8	...	...	5	1.4	...	...	12	8.6	...	...
Year, 1910....	1	0.1	...	...	...	...	...	...	1	0.7	...	...

GENERAL SANITARY INSPECTION.

Complaints, Notices and Orders—1912.

	Man- hattan.	Brook- lyn.	Bronx.	Queens.	Richmond.	Total.
COMPLAINTS:						
Complaints pending (at beginning of year).....	216	124	54	18	9	421
Citizens' complaints received.....	10,659	12,715	4,295	4,001	852	32,522
Complaints received from other Divisions.....	.....	.....	.....	123	19	142
Complaints filed by Inspectors.....	3,985	1,103	734	635	612	7,069
Total Complaints.....	14,860	13,942	5,083	4,777	1,492	40,154
No cause for action.....	7,976	6,425	2,814	2,416	440	20,071
Duplicates.....	518	529	325	172	61	1,605
Complaints referred to other Divisions.....	....	635	181	150	97	1,063
Complaints referred to other Departments.....	781	3,351	224	463	71	4,890
Complaints returned for Notice or Order.....	5,441	2,992	1,487	1,548	819	12,287
Complaints pending (at end of year).....	144	10	52	28	4	238
Total.....	14,860	13,942	5,083	4,777	1,492	40,154
NOTICES AND ORDERS:						
Notices and Orders pending (at beginning of year).....	387	300	104	312	23	1,126
Notices and orders issued during year.....	5,530	4,621	1,559	1,548	849	14,107
Total Notices and Orders..	5,917	4,921	1,663	1,860	872	15,233
Complied with before legal action.....	5,432	3,645	1,317	1,442	706	12,542
Complied with after legal action.....	252	873	202	186	32	1,545
Rescinded.....	41	50	28	92	14	225
Notices and Orders pending (at end of year).....	192	353	116	140	120	921
Total.....	5,917	4,921	1,663	1,860	872	15,233
Number of Civil Actions during year.....	.....	.....	4	.....	.....	4
Number of Criminal Actions during year.....	269	271	188	168	66	962

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Nature and Result of Inspections by Sanitary Inspectors 1912.—City of New York

	Total.	Original, no Cause for Action.	No Cause for Complaint.	Complaint Returned for Notice.	Duplicate	Reference.	Not Completed With.	Progressing.	Completed With.	Held for Observation.	Abated by Personal Effort.	Application for Permit Granted.	Application for Permit Denied.	Special Report.	Summons Procured
Buildings — ventilation, plumbing, overcrowding, cleaning, leaky roofs and heating:															
Dwelling.....	56,878	4,092	5,578	5,531	383	536	12,582	4,003	4,684	12,598	3,250	1,723	129	1,781	8
Factory.....	10,109	892	805	2,211	146	124	3,083	2,106	1,783	6,095	841	29	2	92	...
Boarding or furnished rooms.....	5,104	269	88	361	37	128	1,283	848	617	895	179	6	...	22	...
Hotel.....	1,823	451	124	92	16	6	1,33	98	64	485	335	1	3	15	...
Lodging house.....	1,784	88	52	40	1	1	188	287	172	738	88	122	...	7	...
Privies, school sinks or cesspools.....	2,926	181	346	186	25	6	488	142	315	738	106	373	2	6	12
Stable.....	15,268	1,552	749	1,392	106	73	2,795	1,770	1,095	3,781	1,382	219	29	321	4
Store.....	7,218	2,030	584	498	23	93	729	332	474	1,562	748	31	1	109	4
Tenement.....	10,191	2,030	584	498	23	93	729	332	474	1,562	748	31	1	109	4
Theater.....	744*	1,374	1,061	465	41	2,875	410	207	219	2,622	663	22	20	212	...
Office building.....	2,511	471	186	210	27	32	295	155	197	764	100	4	...	100	...
Business pursuits under regulations of permit:															
Barber shop.....	5,628	1,834	127	307	3	1	296	98	213	1,593	1,226	7	1	12	...
Baths.....	2,430	165	140	70	6	26	56	30	41	1,592	71	101	7	125	...
Bottling works or bottled water.....	614	32	12	9	...	39	18	19	12	351	26	5	1	90	...
Fat rendering.....	786	491	17	4	2	18	14	122	14	78	8	7	...	11	...
Fertilizer.....	938	418	15	1	2	1	41	409	...	36	1	10	...	4	...
Live poultry.....	3,468	395	392	34	6	9	121	65	48	856	553	510	67	410	2
Lodging house.....	1,141	380	17	33	1	2	38	24	66	553	15	6	3	...	1
Miscellaneous permits.....	6,410	416	838	36	2	250	38	120	281	1,866	964	1,004	78	517	...
Miscellaneous { cattle.....	2,495	2,078	24	14	...	22	24	126	9	140	9	24	...	25	...
Slaughter houses { poultry.....	3,472	1,289	139	158	4	38	72	195	48	1,163	284	21	10	50	1
Stables { cellar.....	877	30	11	24	...	24	14	26	18	570	17	69	10	64	...
Stables { cow.....	487	137	47	23	1	17	27	20	8	84	32	37	3	51	...
Smoke house.....	368	96	18	20	3	7	31	13	6	115	21	4	1	33	...
Cleaning, grading and draining:															
Air-shafts.....	62	16	5	10	1	...	...	4	1	10	15	...	...	...	...
Alleyways.....	473	149	147	40	2	...	22	14	15	33	49	...	...	2	...
Areas.....	775	21	10	48	...	...	12	4	6	...	...	...	...	...	...
Excavations.....	610	45	40	36	10	20	46	13	29	307	59	...	...	5	...
Iceboxes.....	597	33	34	36	3	3	30	24	25	21	24	...	...	...	...
Lofts—vacant.....	8,543	395	885	1,417	183	67	2,955	527	769	1,758	436	22	...	64	2
Roofs.....	266	23	15	25	1	4	35	23	35	97	...	...	2	...	...
Streets.....	585	63	90	25	6	174	26	13	15	112	43	5	...	18	...
Yards.....	2,422	1,442	257	65	6	7	116	88	70	235	126	...	...	10	...

GENERAL SANITARY INSPECTION.

Foodstuffs prepared or sold:														
Bakery.....	6,018	1,873	196	345	6	13	417	688	451	1,437	585	2	....	5
Butchery.....	7,074	3,150	187	801	1	17	385	221	277	1,076	915	2	....	12
Butter or milk.....	235	10	20	....	....	5	30	14	20	36	19	....	....	1
Delicatessen.....	1,284	857	26	108	2	1	53	18	26	96	97	....	....	....
Dressmaking.....	2,750	53	401	....	2	16	142	66	111	580	502	2	1	....
Miscellaneous.....	4,562	1,593	157	308	13	55	281	240	173	1,002	675	12	4	42
Packing house.....	522	198	11	11	11	11	52	74	19	109	32	1	....	7
Restaurant.....	6,100	1,353	340	806	16	39	688	686	556	1,013	621	2	....	10
General nuisances:														
Animals kept without a permit.....	5,727	259	662	41	15	74	69	96	257	1,558	979	1,104	114	493
Chickens.....	358	183	4	7	2	....	6	4	11	100	4	....	....	5
Dance halls.....	57	11	5	....	1	....	4	11	3	19	3	....	....	....
Dust.....	543	40	56	27	4	1	39	18	35	292	26	....	....	5
Garage.....	537	47	62	23	4	2	28	23	19	296	30	....	....	3
Gas mains or pipes.....	177	5	14	14	....	5	18	8	19	86	8	....	....	....
Gas and funes from chimneys.....	1,307	29	99	62	9	11	114	73	50	786	50	....	....	22
Lighting.....	8	3	2	....	....	....	....	....	....	....	....	....	....	2
Mosquitoes.....	31	12	4	1	....	....	....	....	....	....	....	....	....	....
Machines { machinery, motor boats, pumps dogs, from { horses, other animals.....	668	8	168	33	9	1	44	31	23	318	23	....	....	10
Odors from chemical factory.....	491	3	158	9	1	2	10	4	13	236	52	3	....	....
Odors from rendering plants.....	308	17	18	9	6	3	35	50	16	140	7	....	....	7
Odors from restaurant or cooking.....	852	404	13	3	1	1	11	281	....	73	4	....	....	1
Poor house.....	282	11	20	10	2	2	18	23	11	169	8	2	....	6
Public houses.....	307	47	6	10	....	....	21	4	6	206	1	....	....	....
Pigeons (flying).....	340	64	62	13	2	3	11	9	6	140	17	1	....	12
Rag shops.....	786	28	96	13	3	4	29	19	37	333	180	9	16	....
Smoke { power.....	327	20	11	28	2	....	29	11	33	125	64	2	....	....
Smoking in automobile.....	15,086	822	393	508	53	20	1,226	237	795	11,417	373	....	3	62
Smoking in subway.....	164	8	8	4	....	1	20	....	13	98	12	....	....	17
Spitting.....	2	1	....	....	....	....	1	....	....	....	....	....	....	....
Swamp and ditches, etc.....	23	20	16	17	....	4	34	21	10	87	10	....	....	....
Unclassified.....	10,394	1,803	624	281	15	119	485	275	358	5,159	629	39	13	566
Removal of refuse:														
Ashes and rubbish.....	3,180	1,178	275	26	1	11	110	85	16	265	1,141	27	25	19
Dead animals.....	302	6	1	1	....	1	....	....	1	8	264	....	....	20
Fat and bones.....	305	140	1	1	....	3	....	4	1	72	12	65	2	4
Garbage.....	2,486	1,185	302	31	2	6	5	3	11	384	538	8	3	384
Manure.....	485	51	63	18	2	19	7	7	2	147	35	111	7	15
Swill.....	74	1	2	....	....	....	1	1	....	58	4	3	....	4
Water:														
Public water supply.....	465	111	61	19	2	27	10	24	17	39	43	....	2	110
Water tank or cistern.....	746	417	15	46	1	....	6	8	6	115	115	10	3	4
Watering troughs.....	7	1	1	1	1	....	....	....	....	1	2	1	....	....
Wells, springs, etc.....	622	176	45	7	....	33	19	12	1	222	59	3	10	35
Total.....	245,589	40,956	17,147	18,162	1,233	5,019	29,680	15,399	14,764	71,188	19,921	5,783	570	5,667
														100

Work of Sanitary Police—Summary of Criminal Cases.

City of New York, Year 1912.	Cases pending be- ginning of year.	New arrests during year.	Total.	Discharged.	Fined.	Sentence suspended.	Cases dropped.	Imprisoned.	Cases pending end of year.	Total.	Amount of fines imposed.
Buildings—ventilation, plumbing, overcrowding, cleaning, leaky roofs and heating:											
Dwelling.....	18	18	18	13	3	2	..	..	..	18	\$4.00
Factory.....	..	..	..	..	..	..	..	..	..	..	..
Boarding or furnished rooms.....	..	..	..	..	..	..	..	..	..	..	..
Hotel.....	..	..	..	..	..	..	..	..	..	..	..
Lodging house.....	80	80	80	67	12	..	..	*1	..	80	70.00
Privies, school sinks or cesspools.....	9	9	9	4	4	1	..	..	..	9	5.00
Stable.....	53	53	53	13	40	..	..	..	..	53	63.00
Store.....	20	20	20	5	15	..	..	..	..	20	22.00
Tenement.....	..	..	..	..	..	..	..	..	..	..	..
Theater.....	..	..	..	..	..	..	..	..	..	..	..
Office building.....	..	..	..	..	..	..	..	..	..	..	..
Business pursuits under regulations or permit:											
Barber shop.....	..	..	..	..	..	..	..	..	..	..	..
Baths.....	..	..	..	..	..	..	..	..	..	..	..
Bottling works or bottled water.....	1	1	1	1	1	..	..	..	..	1	5.00
Fat rendering.....	..	..	..	..	..	..	..	..	..	..	..
Fertilizer.....	..	..	..	..	..	..	..	..	..	..	..
Live poultry.....	..	..	..	..	..	..	..	..	..	..	..
Lodging house.....	..	..	..	..	..	..	..	..	..	..	..
Miscellaneous permits.....	..	..	..	..	..	..	..	..	..	..	..
Slaughter houses {cattle.....	1	1	1	1	1	..	..	..	..	1	5.00
Stables {cellar.....	..	..	..	..	..	..	..	..	..	..	..
Stables {cow.....	..	..	..	..	..	..	..	..	..	..	..
Smoke house.....	1	1	1	1	..	..	..	..	..	1	..
Cleaning, grading and draining:											
Air-shafts.....	..	..	..	..	..	..	..	..	..	..	..
Alleyways.....	..	..	..	..	..	..	..	..	..	..	..
Areas.....	..	..	..	..	..	..	..	..	..	..	..
Excavations.....	..	..	..	..	..	..	..	..	..	..	..
Lebores.....	..	..	..	..	..	..	..	..	..	..	..
Lots vacant.....	2	2	2	2	..	..	..	..	..	2	..
Stables.....	..	..	..	..	..	..	..	..	..	..	..
Streets.....	..	..	..	..	..	..	..	..	..	..	..
Yards.....	1	1	1	1	..	..	..	..	..	1	..

GENERAL SANITARY INSPECTION.

Foodstuffs prepared or sold:										
Bakery.....	6	6	1	5	.....	.....	.....	.....	.....	6
Butcher.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairy or milk.....	4	4	1	3	.....	.....	.....	.....	.....	4
Delicatessen.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grocery.....	3	3	1	2	.....	.....	.....	.....	.....	3
Miscellaneous.....	8	394	43	332	.....	.....	.....	.....	.....	394
Packing house.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Restaurant.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
General nuisances:										
Animals kept without a permit.....	4	40	44	12	21	5	.....	.....	.....	44
Cinders.....	.....	1	1	.....	.....	1	.....	.....	.....	1
Dance halls.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dust.....	.....	21	21	8	11	2	.....	.....	.....	21
Garage.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gas mains or pipes.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gases and fumes from chimneys.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lighting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mosquitoes.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Noises from { machinery, motor boats, pumps, { dogs, horses, other animals.....	.....	1	1	.....	.....	1	.....	.....	.....	1
Odors from chemical factory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Odors from rendering plants.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Odors from restaurant or cooking.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Power house.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Public conveyances.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pigeons (flying).....	.....	6	6	2	4	.....	.....	.....	.....	6
Rag shops.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smoke { power.....	.....	16	16	2	.....	5	.....	.....	.....	16
{ automobile.....	.....	219	223	5	214	.....	.....	.....	.....	223
Smoking in subway.....	4	459	459	31	413	13	.....	.....	.....	4
Spitting.....	.....	287	287	32	224	30	.....	.....	.....	287
Swampland—ditches, etc.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unclassified.....	1	20	21	5	14	1	.....	.....	.....	21
Removal of refuse:										
Ashes and rubbish.....	.....	29	29	5	23	.....	.....	.....	.....	29
Dead animals.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fat and bones.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Garbage.....	.....	629	629	94	318	217	.....	.....	.....	629
Manure.....	.....	44	44	10	31	3	.....	.....	.....	44
Swill.....	.....	1	1	.....	1	.....	.....	.....	.....	1
Water:										
Public water supply.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Water tank or cistern.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Watering troughs.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wells, springs, etc.....										
Total.....	18	2,364	2,382	360	1,703	286				2,382
										32
										2,382
										\$3,259.50

* 30 days.

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Summary of Public Nuisances and Vacation of Premises. Orders Issued by the Board of Health During the Year 1912.

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	Public Nuisance.	Vacation.	Public Nuisance.	Vacation.	Public Nuisance.	Vacation.	Public Nuisance.	Vacation.	Public Nuisance.	Vacation.	Public Nuisance.	Vacation.
Number of orders issued...	126	233	30	86	86	97	0	24	10	17	0	9
Number complied with...	109	208	25	79	74	81	....	22	10	17	....	9
Number not complied with.....	17	25	5	7	12	16	....	2	....	....	....	....
Of those not complied with:												
Work in progress.....	11	19	5	7	6	10	....	2	....	....	....	....
Work not in progress.....	6	6	....	....	6	6	....	....	....	....	....	....
Of those work not in progress:												
Vacant.....	2	2	....	....	2	2	....	....	....	....	....	....
Nothing done.....	4	4	....	....	4	4	....	....	....	....	....	....

Dead Animals, Offal and Night Soil Ordered Removed, 1912

	New York.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.
Carcasses ordered removed—						
Large animals:						
Horses.....	19,044	8,733	6,182	1,724	1,859	546
Mules.....	8	2	1	1	....	4
Donkeys.....	6	2	1	3	....	....
Colts.....	78	49	16	3	7	3
Cattle.....	409	242	37	16	73	41
Other large animals.....	4	{ 1 camel 3 deer }	....	....	....	....
Total large animals.....	19,549	9,032	6,237	1,747	1,939	594
Small animals:						
Calves.....	1,118	1,105	4	1	5	3
Sheep.....	123	122	1	....	....	....
Goats.....	90	11	47	....	25	7
Pigs.....	158	139	2	....	12	5
Cats and dogs from streets....	113,911	79,935	14,408	14,335	2,171	3,062
Cats and dogs from A. S. P. C. A. Shelter.....	218,786	129,307	86,756	....	....	2,723
Other small animals.....	2	(deer) 1	....	....	(lion) 1	....
Total small animals.....	334,188	210,620	101,218	14,336	2,214	5,800
Total all animals.....	353,737	219,652	107,455	16,083	4,153	6,394
Quantity of meat, offal, etc., ordered removed—						
Pounds of meat.....	5,650	5,650	....	....	....	....
Pounds of poultry.....	145,065	145,065	....	....	....	....
Pounds of fish.....	628,600	2,200	626,400	....	....	....
Pounds of offal.....	3,725,928	1,602,128	2,123,800	....	....	....
Total pounds.....	4,505,243	1,755,043	2,750,200	....	....	....
Quantity of night soil removed—						
Cubic yards of night soil removed...	3,337	....	1,000	....	2,337	....

DIVISION OF FOOD INSPECTION

During the year 1912, the inspection of food supplies and their supervision were conducted under one administrative head, although the budgetary allowance for milk and food inspection was divided into two schedules. The single administration proved most satisfactory as there were many instances where the two lines of work interlocked and their being under the same control made greatly for efficiency. The most radical move, and one which has been a great step in advance, was the assignment to this division of one supervising and sixteen sanitary inspectors on May 26, 1912. These men inspect all places where foodstuffs are prepared, stored or sold, and examine the sanitary surroundings of the food. This has been productive of two great results: it has permitted the food inspectors to devote all their time and energy to the examination of food and has placed in trained hands the important duty of maintaining proper sanitary conditions in the various premises concerned. When it is remembered that there are 28,510 establishments of this character, the force seems altogether too small for the work demanded. Revolutionary and progressive rules and regulations for the control of the manufacture of sausages and the preserving of meats were adopted by the Board of Health, on February 20, 1912. The enforcement of these rules has occupied a large amount of the time of the sanitary inspectors. On January 4, 1912, amendments made to the Sanitary Code reorganized completely the management of the milk supply. These amendments established three grades of milk and defined clearly the different kinds of milk which were henceforth to compose each grade. At the same time the rules and regulations for the care and sale of milk were altered so as to conform to the new amendments. Practically all the time of the milk inspectors has been devoted to the examinations necessary to the enforcement of the amendments.

FOOD CONDEMNED IN 1912

During 1912, the food section condemned and destroyed a total of 23,950,321 pounds of foodstuffs or 11,975 tons. The heaviest individual seizure was of approximately 4,561,164 pounds of spoiled potatoes which were imported from Scotland during the months of April and May. The loss of this enormous quantity of potatoes has been charged to carelessness in transportation. One of the principal losers declared that his tubers were of first quality when he saw them loaded in Scotland, but were unrecognizable when unloaded in New York. He charged that the change was brought about by dampness of the ship's hold, caused possibly by the wetting of the containing bags by a severe rainfall during the period of embarkation. Whatever the contributing cause, the condition and quantity of these several shiploads of potatoes, presented a difficult problem to the officers of the food division, inasmuch as it became their duty to identify, classify and dispose of the mass, which had been collected on two adjoining piers. The stench was well-nigh unbearable and resulted in several gangs of laborers refusing to continue the work of transferring the potatoes to scows for removal to their point of final destruction. No useful purpose could be discovered for these spoiled potatoes and it became necessary to dump them into the sea. Then arose a new problem. The potatoes must be dumped beyond the tidal limit and the owners of flat scows did not care to risk their boats so far from land, nor were the sea-going, self-dumping scows practicable because, when opened, such buoyant contents as potatoes would not empty from them and remained floating within the opened boat. A solution was finally arrived at by half-filling the self-dumping scows with potatoes, and then placing on top of these dirt and other heavy material of sufficient weight to

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submerge the potatoes temporarily and thus to permit the closing of the emptied scows. The magnitude and immediate need of this condemnation rendered necessary the employment of a force of five inspectors working twelve hours a day for almost a week. Four of these inspectors were drawn from other districts and their transfer crippled in a measure the work of the division during its busiest month.

CONDEMNATION OF CANNED GOODS.

The second largest condemnation of the year consisted of 1,724,893 pounds of unfit canned goods. A quite recent policy of the department in refusing to allow the reshipment to the manufacturers of spoiled canned foodstuffs for the ostensible purpose "of identifying the goods" has received the co-operation of the leading wholesale receivers and has resulted in the condemnation and destruction of millions of pounds of such material during the past few years. The seizure of foreign fruits, when found to be in an unwholesome state upon their arrival at the piers, has continued actively. The consignees of such fruits are willing aids to the inspectors because without a "condemnation certificate" from the Department of Health they are unable to recover their rebate of duties on such useless material from the custom authorities. With the limited number of inspectors on the waterfront, this necessity of the consignees has proved to be a most welcome aid, without which there is a possibility that some consignments of damaged fruits on obscure piers might never be discovered.

OPIUM AND COCAINE.

The work which in former years was performed by this department in the detection of the sale of opium and cocaine without a physician's prescription has in practically all instances been referred to the Police Department. The reasons for this are that the food division has not sufficient men to cope with this evil in a proper manner and, as the offense is now classed as a felony, it comes more properly under the supervision of the Police.

WOOD ALCOHOL.

In the early part of 1912, several cases of blindness and one of death occurring in a Southern laboring camp were brought to the attention of this department by the Italian Consul. It was believed that these results had been brought about by a certain brand of liquor shipped to the camp from New York City. Investigation led to the discovery that these liquors originated from a factory situated in a basement in Leroy Street. Inspectors in this division took possession of the basement and its contents and chemical examination of numerous samples of liquor found therein disclosed the fact that about 95 per cent. of the stock was adulterated with wood alcohol. More than a thousand bottles were seized and destroyed, and the owner of this material was sent to the penitentiary for a term of eight months upon pleading guilty to a violation of the interstate law. From record books found in his office a number of local receivers of this material were traced, and prosecuted and punished and the liquor destroyed. More recently, investigation has revealed that some unscrupulous druggists have been using wood alcohol in mixtures of paregoric and spirits of lavender, and prosecutions of the offenders are under way. A number of cases of complete or partial blindness reported from the lower eastern section of the city were traced to the consumption of so-called "Weisser Schnapps" containing wood alcohol, and in several instances in which the offenders could be reached, prosecution and punishment followed. The use of wood alcohol as an adulterant of cheap liquors is due partly to ignorance on the part of the manufacturer, and partly to his cupidity, in an attempt to avoid the heavy Federal tax imposed upon grain alcohol. Evidence in cases of this character is most difficult to obtain for the dealers in this material are very wary of strangers

FOOD AND MILK INSPECTION.

and their victims belong to an ignorant foreign class unable to suspect the source of their symptoms, and who, therefore, do not report them promptly to the authorities.

TABLE WATERS.

Bacteriological examination of the many table and spring waters now so extensively used revealed the fact that many of them were polluted. The owners of such contaminated waters were compelled by the Department of Health either to render their products safe or to withdraw them from the market.

BAKERIES.

Bakeshops have been frequently inspected for the purpose of examining the materials employed, and in order to check the use of unfit eggs and spoiled fruits, which practice has been greatly diminished by the prosecutions and punishments which resulted. Several fines of \$250 were imposed and in two instances the offenders were imprisoned.

EGGS.

The wholesale egg market has required the entire attention of one inspector. Large quantities of unfit eggs have been destroyed and one offender was fined \$750. The handling of eggs and egg products has been restricted by the enforcement of strict ordinances governing this industry, and it is believed that as a result this business has been put on a more legitimate basis than it has ever before occupied. Unsound eggs, of course, enter the market in large quantities in the original package. This is an unpreventable occurrence for, under stress of weather or on account of the length of time en route, some eggs in each package are almost certain to deteriorate. All egg merchants employ "candlers" and the examination by the latter is capable of disclosing with great accuracy the presence of unfit eggs. The problem is to prevent such eggs from entering the market as food. While the honest merchant requires no supervision in this matter, those less scrupulous require to be watched constantly, and the records of this division show that vigilance in this direction has been productive of good results. Rotten eggs are used legitimately by leather manufacturers in the form of the so-called "tanners' yolk," and there is no desire on the part of this department to interfere with such use of these eggs. Their use in this manner is rather to be encouraged for, by offering this method of employing unfit eggs, the desire to dispose of them in an illegitimate manner is diminished.

OYSTERS.

During the spring of 1912, a thorough investigation of Jamaica Bay, L. I., and its estuaries was made, and samples of water from various parts of the bay during different tidal variations were taken for purposes of bacteriological analysis. As a result, "floating," "drinking," or "storing" of shellfish in the waters of Jamaica Bay was prohibited. As a result of a similar investigation, no oysters which are "drunk" in Chesquake Creek, N. J., are permitted to be sold in this city. All permits "To Keep Oysters For Sale" which were in force prior to November 1, 1912, were revoked and dealers were required to obtain new permits. In issuing such permits to the wholesale dealers, the department requires that the exact location of all beds must be given, together with a statement as to whether oysters are "floated," "drunk," or "washed," and the location of the "drinks" and "floats," the location of storehouses must also be stated, and the purity of the water flowing over the oyster beds and of the water in which oysters are "floated" or "drunk" must be proven to the satisfaction of the department.

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The sale of oysters at retail within the City of New York is also conducted under permits from this department. At the present time, however, only those retail dealers who procure their oysters from wholesale dealers located outside the City of New York or from those who do not operate under a permit from this department are required to procure permits.

Cost of Inspection and Condemnation of Meat.

	Cents.
Cost of each inspection at stores, markets, depots, etc., where meat is stored and sold (not including slaughter-houses).....	13.49
Cost of each inspection at premises where animals are slaughtered, and meat is kept and offered for sale.....	27.19
Cost per pound of meat condemned at stores, markets, depots, etc., where meat is stored and sold (not including slaughter-houses).....	1.69
Cost per pound of meat condemned at premises where animals are slaughtered and meat is kept and offered for sale.....	1.76
Cost per pound of meat condemned at slaughter-houses.....	1.85

Cost of Inspection and Condemnation of Foodstuffs.

(Not Including Meat.)

	Cents.
Cost of each inspection at wholesale premises.....	20.36
Cost of each inspection at all inspected premises.....	7.01
Cost per pound of foodstuffs condemned at wholesale premises.....	0.03
Cost per pound of foodstuffs of total amount condemned.....	0.09

Inspection Made by all Inspectors and Cost of Same, and Total Cost per Pound of all Foodstuffs Condemned.

Total number of inspections made.....	523,732
Total number of pounds of foodstuffs condemned.....	23,950,321 pounds
Cost of each inspection by all inspectors.....	10.52 cents
Cost per pound of the total number of foodstuffs condemned.....	0.16 cent

Approximate Amount of Foodstuffs Arriving at New York for Consumption in New York City, During Year.

Character of foodstuffs.	Pounds.
Meats (beef, veal, pork, etc.).....	684,315,000
Fish.....	57,031,250
Poultry.....	114,062,500
Vegetables.....	684,315,000
Butter.....	114,062,500
Milk.....	1,368,630,000
Bread.....	456,250,000
Coffee.....	57,031,250
Tea.....	28,515,625
Fruit (including nuts).....	228,125,000
Sugar (including candy).....	142,578,125
Pastry.....	114,062,500
Salt.....	57,031,250
Fats.....	57,031,250
Cheese.....	57,031,250
Eggs.....	142,578,125
Canned goods.....	171,093,750
Total.....	4,533,744,375

FOOD AND MILK INSPECTION.

Prosecutions for Violations of Various Sections of the Sanitary Code Pertaining to Food.

Cases pending December 31, 1911.....	143
Cases prosecuted during year 1912.....	2,259
	2,402

DISPOSITION.

Prison sentences.....	8
Monetary fines.....	1,900
Sentence suspended.....	173
Discharged.....	255
Disposition pending.....	66
Total.....	2,402

AMOUNT OF FINES.

Amount of fines imposed.....	\$14,070.00
Prison sentences.....	195 days

Violations Prosecuted Under Sections 42, 46, 49, 68, 79 Sanitary Code.

Section.	Cases fined.	S. S.	Discharged.	Amount of fines.
Section 42:				
Unwholesome				
meat.....	117	24	25	\$4,455.00
fish.....	10	3	1	43.00
fruit.....	103	24	31	901.00
eggs.....	82	18	20	4,812.00
Miscellaneous.....	12	2	4	74.00
Total.....	324	71	81	\$10,285.00
Section 45:				
Exposure of				
meat and fish.....	268	37	17	553.00
Total.....	268	37	17	\$553.00
Section 46:				
Exposure of				
breadstuffs, cake, pastry,				
fruit, candy, etc.....	1,256	50	149	2,245.00
Total.....	1,256	50	149	\$2,245.00
Section 49:				
Insanitary conditions.....	3	3	4	26.00
Total.....	3	3	4	\$26.00
Section 68:				
Adulterated foods.....	34	10	3	870.00
Total.....	34	10	3	\$870.00
Section 79:				
Selling poultry, no permit...	15	2	1	91.00
Total.....	15	2	1	\$91.00

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Inspection and Condemnation of Meat—1912, 1911.

CITY OF NEW YORK.

	Year 1912.			Year 1911.		
	Inspec- tions.	Condem- nations.	Pounds Con- demned.	Inspec- tions.	Condem- nations.	Pounds Con- demned.
Butcher shops....	9,635	139	18,175	22,694	486	27,517
Stores.....	24,322	449	27,611	9,177	185	28,495
Packing houses...	65	.....	.....	992	6	865
Icehouses.....	312	9	4,182	7,843	172	31,345
Stands.....	7,331	16	967	15,285	654	83,327
Vessels.....	256	5	861	726	4	901
Markets.....	2,089	386	38,552	1,185	174	25,076
Railroad depots...	438	53	39,776	456	51	30,660
Stockyards.....	258	311	251,130	766	701	198,399
Slaughter houses...	4,806	29,232	699,985	5,349	8,036	339,699
Commission houses	18,318	1,799	199,744	16,312	1,603	139,156
Fat houses.....	19	.....	.....	666	.....	.....
Licensed venders..	5,907	4	235	4,892	20	3,193
Cow sale stables..	1	.....	.....	40	.....	.....
Total.....	73,757	32,403	1,281,218	86,383	12,092	908,633

Inspection and Condemnation of Fruit, Fish and Other Foods.

CITY OF NEW YORK.

	Year 1912.			Year 1911.		
	Inspec- tions.	Condem- nations.	Pounds Con- demned.	Inspec- tions.	Condem- nations.	Pounds Con- demned.
Commission houses	31,567	2,384	4,366,289	45,778	1,606	3,545,840
Retail stores.....	47,698	2,894	347,426	44,986	2,595	362,682
Licensed venders..	19,641	433	35,973	37,977	512	36,029
Vessels and wharves	7,104	1,661	16,629,243	8,674	941	8,354,063
Railroad depots...	1,568	124	227,921	1,199	156	333,396
Stands.....	69,885	2,882	78,555	104,162	1,931	151,298
Markets.....	1,688	897	602,357	4,443	299	141,402
Icehouses.....	551	29	83,255	1,339	35	100,351
Pushcarts.....	170,273	21,341	228,084	144,321	10,825	95,947
Total.....	349,975	32,645	22,599,103	392,879	18,900	13,121,008

FOOD AND MILK INSPECTION.

Pounds of Meat Condemned and Destroyed.
NEW YORK.

	Beef.	Veal.	Sheep.	Hogs.	Assorted Meats.	Poultry.	Game.	Total.
Butcher shops.....	2,533	560	88	4,713	10	10,236	35	18,175
Stores.....	8,455	693	2,192	5,579	2,007	8,655	30	27,611
Packing houses.....	.....	.....	.....	.....	.....	.....	.....	.....
Icehouses.....	.....	.....	.....	60	3,250	479	393	4,182
Stands.....	.....	.....	75	.....	.....	792	100	967
Vessels.....	.....	.....	.....	.....	.....	811	50	861
Markets.....	8,157	1,536	1,344	3,253	.....	24,262	.....	38,552
Railroad depots.....	10,051	4,953	152	8,161	1,850	15,509	.....	39,776
Stockyards.....	143,540	65,595	11,075	39,350	.....	600	.....	251,130
Slaughter houses.....	213,203	100,825	1,012	5,385	377,373	2,187	.....	699,985
Commission houses.....	5,112	13,327	185	4,469	487	175,929	1,135	199,744
Fat houses.....	.....	.....	.....	.....	.....	.....	.....	.....
Licensed vendors.....	.....	.....	.....	.....	.....	235	.....	235
Cow sale stables.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	391,051	186,559	16,123	61,970	384,977	238,795	1,743	1,281,218

Pounds of Fruit, Fish and Other Foods Condemned and Destroyed.

NEW YORK.

	Fruit.	Vegetables.	Canned Goods.	Confectionery.	Groceries.	Eggs.	Fish.	Miscellaneous.	Total.
Commission houses.....	504,055	1,555,873	1,561,397	22,875	490,564	9,150	173,080	49,385	4,366,289
Retail stores.....	43,751	59,472	105,290	18,535	79,503	3,305	10,109	27,461	347,426
Licensed venders.....	16,205	17,099	1,009	.....	.....	.....	1,620	40	35,973
Vessels and wharves.....	6,958,991	9,593,360	48,616	.....	68,663	3,650	23,980	21,983	16,629,243
Railroad depots.....	39,568	179,604	2,525	.....	4,334	.....	1,890	.....	227,921
Stands.....	21,679	27,525	28	73	90	699	28,431	30	78,555
Markets.....	44,707	131,411	631	30	.....	.....	485,538	40	602,357
Icehouses.....	34,795	2,265	4,800	.....	900	33,340	3,305	3,850	83,255
Pushcarts.....	151,306	74,548	687	126	837	.....	473	107	228,084
Total.....	7,815,057	11,551,157	1,724,893	41,639	644,891	50,144	668,426	102,896	22,599,103

FOOD AND MILK INSPECTION.

Summary of Food Samples Obtained and Results of Analyses.

	Samples Obtained and Delivered to Chemical Laboratory.						Found Adulterated.					
	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Alcohol.....	3	2	1	...	...	...	...	...	...	...	...	...
Beans.....	11	9	2	...	...	...	1	1	...	...	1	...
Beef.....	2	...	...	...	1	1	1	...	...	...	...	...
Beef Croquettes.....	1	1	...	...	...	...	...	...	...	...	...	...
Beverages.....	12	7	3	...	...	2	1	1	...	...	...	...
Bologna.....	2	...	1	1	...	...	...	...	...	...	...	...
Boric Acid.....	2	...	...	...	2	...	2	...	...	...	2	...
Bread.....	2	2	...	...	...	...	...	...	...	...	...	...
Butter.....	15	9	2	1	...	3	1	1	...	...	...	...
Cake.....	3	2	1	...	...	...	1	1	...	...	...	...
Candy.....	174	97	45	12	5	15	4	1	2	...	1	...
Canned Goods.....	8	6	2	...	...	...	2	2	...	...	...	...
Catsup.....	11	8	...	1	2	...	2	2	...	...	...	...
Caviar.....	1	1	...	...	...	...	...	...	...	...	...	...
Cheese.....	5	4	1	...	...	...	...	...	...	...	...	...
Chewing Gum.....	1	1	...	...	...	...	...	...	...	...	...	...
Chicken Salad.....	1	1	...	...	...	...	...	...	...	...	...	...
Chocolate Compound.....	2	1	1	...	...	...	...	...	...	...	...	...
Chopped Meat.....	199	79	68	26	5	21	28	8	14	3	3	...
Citric Acid.....	4	4	...	...	...	...	...	...	...	...	...	...
Cocoa.....	1	1	...	...	...	...	...	...	...	...	...	...
Coffee.....	10	6	...	2	...	2	5	4	...	...	...	1
Coloring.....	4	3	1	...	...	...	2	2	...	...	...	...
Condensed Milk.....	15	3	2	1	1	8	...	...	...	...	...	...
Corn.....	1	...	1	...	...	...	...	...	...	...	...	...
Cresco.....	1	...	1	...	...	...	...	...	...	...	...	...
Drugs.....	55	29	11	1	14	...	3	2	...	...	1	...
Eggs.....	5	5	...	...	...	...	2	2	...	...	...	...
Egg-Yolk.....	2	...	...	...	2	...	...	...	...	...	...	...
Fish.....	3	2	1	...	...	...	...	...	...	...	...	...
Flavoring Extract....	21	13	1	1	5	1	10	5	...	...	5	...
Flour.....	12	2	7	1	2	...	...	...	...	...	...	...
Frankfurters.....	4	2	1	1	...	...	...	...	...	...	...	...
Gelatine.....	2	...	1	...	...	1	1	...	...	...	...	1
Ginger Root.....	1	...	1	...	...	...	1	...	1	...	...	...
Grape-Juice.....	1	1	...	...	...	...	...	...	...	...	...	...
Hair Restorer.....	1	...	...	1	...	...	...	...	...	...	...	...
Herb Tablet.....	1	1	...	...	...	...	...	...	...	...	...	...
Herring.....	1	1	...	...	...	...	...	...	...	...	...	...
Honey.....	2	2	...	...	...	...	...	...	...	...	...	...
Ice Cream.....	3	2	1	...	...	...	...	...	...	...	...	...
Jelly.....	61	61	...	...	...	...	...	...	...	...	...	...
Ketchup.....	1	...	1	...	...	...	...	...	...	...	...	...
Lard.....	1	1	...	...	...	...	...	...	...	...	...	...
Lavender, Spirits of..	2	2	...	...	...	...	1	1	...	...	...	...
Lavenia.....	1	1	...	...	...	...	...	...	...	...	...	...
Lemonade.....	2	2	...	...	...	...	...	...	...	...	...	...
Lithia Water.....	1	1	...	...	...	...	...	...	...	...	...	...
Liquor.....	12	12	...	...	...	...	12	12	...	...	...	...
Liverwurst.....	2	...	1	1	...	...	...	...	...	...	...	...

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Summary of Food Samples Obtained and Results of Analyses—Continued.

	Samples Obtained and Delivered to Chemical Laboratory.						Found Adulterated.					
	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Macaroni.....	4	3	1	...	...	...	...	...	...	...	...	...
Meat.....	17	10	6	...	1	...	1	...	1	...	...	...
Milk, Powdered.....	9	4	...	3	...	2	1	1	...	...	...	...
Milk Punch.....	1	1	...	...	...	...	...	...	...	...	...	...
Noodles.....	18	15	...	1	...	2	...	...	...	...	...	...
Olive Oil.....	3	2	...	...	1	...	...	...	...	...	...	...
Oil, Vegetable.....	17	11	1	...	5	...	...	...	...	...	...	...
Oysters.....	1	...	1	...	...	...	...	...	...	...	...	...
Paregoric.....	2	2	...	...	...	...	2	2	...	...	...	...
Peas.....	2	1	1	...	...	...	...	...	...	...	...	...
Pie.....	1	1	...	...	...	...	...	...	...	...	...	...
Prescription (Compounded)....	1	1	...	...	...	...	...	...	...	...	...	...
Preserves.....	3	3	...	...	...	...	...	...	...	...	...	...
Salad Dressing.....	1	...	1	...	...	...	...	...	...	...	...	...
Salt.....	1	...	1	...	...	...	...	...	...	...	...	...
Sardines.....	2	...	...	...	...	2	...	...	...	...	...	...
Sauce.....	1	1	...	...	...	...	...	...	...	...	...	...
Sesonine.....	1	1	...	...	...	...	...	...	...	...	...	...
Soap Powder.....	1	1	...	...	...	...	1	1	...	...	...	...
Soda.....	1	...	1	...	...	...	...	...	...	...	...	...
Soup.....	1	1	...	...	...	...	...	...	...	...	...	...
Spices.....	2	1	...	...	...	1	...	...	...	...	...	...
Sugar.....	4	3	1	...	...	...	...	...	...	...	...	...
Syrup.....	5	3	1	...	...	1	2	1	1	...	...	...
Tea.....	18	6	10	2	...	...	...	...	...	...	...	...
Tomatoes.....	4	4	...	...	...	...	4	4	...	...	...	...
Tomato Pulp.....	6	3	3	...	...	...	...	...	...	...	...	...
Tomato Sauce.....	1	...	1	...	...	...	...	...	...	...	...	...
Vermouth.....	317	317	...	...	...	...	317	317	...	...	...	...
Vinegar.....	2	...	1	1	...	...	...	...	...	...	...	...
Wafers.....	1	1	...	...	...	...	...	...	...	...	...	...
Water.....	87	77	5	4	1	...	12	9	3	...	...	...
Whiskey.....	16	12	2	...	2	...	...	...	...	...	...	...
Wine.....	2	2	...	...	...	...	1	1	...	...	...	...
Wine-Masala.....	167	167	...	...	...	...	...	...	...	...	...	...
Wurst.....	1	1	...	...	...	...	...	...	...	...	...	...
Total.....	1,409	1,042	195	61	49	62	421	380	22	4	13	2

FOOD AND MILK INSPECTION.

Food Inspection—Complaints.

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.
Complaints pending, Dec. 31, 1911...	12	38	8	28	1	5	2	4	1	1	.....	.....
Citizens' complaints received.....	499	1,281	257	837	83	255	52	129	17	56	.....	4
Complaints received from other divisions.....	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
Inspectors' complaints filed.....	1	148	1	131	.....	10	.....	6	.....	1	.....	.....
Total complaints.....	424	1,467	266	996	85	270	54	139	19	58	.....	4
No cause for action.....	418	1,305	262	855	83	258	54	131	19	57	.....	4
Complaints referred to other divisions.....	.....	148	.....	131	.....	10	.....	6	.....	1	.....	.....
Complaints pending, Dec. 31, 1912..	6	14	4	10	2	2		2				
Total complaints disposed of...	424	1,467	266	996	85	270	54	139	19	58		4

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Food Inspection—Criminal Actions.

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.	Meat.	Food.
Cases pending, Dec. 31, 1911.....	36	107	3	57	25	41	5	8	3	1	.....	.....
New arrests made.....	184	2,076	97	1,573	65	332	6	133	16	37	.....	1
Total.....	220	2,183	100	1,630	90	373	11	141	19	38	.....	1
Convicted and sent to prison.....	2	12	1	6	1	6	.....	.....	.....	.....	.....	.....
Discharged.....	40	215	18	157	15	34	7	22	.....	2	.....	.....
Number fined.....	126	1,774	65	1,427	44	217	4	107	13	23	.....	.....
Sentence suspended.....	40	133	10	27	28	91	.....	4	2	10	.....	1
Cases pending, December 31, 1912..	12	49	6	13	2	25	.....	8	4	3	.....	.....
Total.....	220	2,183	100	1,630	90	373	11	141	19	38	.....	1
Amount of fines imposed.....	\$4,567	\$9,503 75	\$3,058	\$7,065	\$1,090	\$1,833 75	\$110	\$374	\$309	\$231	.....	.....

FOOD AND MILK INSPECTION.

SANITARY BRANCH OF THE DIVISION OF FOOD INSPECTION.

The sanitary branch of the Division of Food Inspection was established for the purpose of relieving the Milk and Food Inspectors of the necessity of making sanitary inspections in connection with their examination of foodstuffs. This work is at present performed by twenty (20) inspectors and one Supervisor. The city is divided into districts and the inspectors are held responsible for the conditions within their districts. The greater part of the work originates through complaints from citizens, references from other Bureaus and Departments, and requests for permits to conduct certain forms of business. The Inspectors are required to devote their time to original investigations when not engaged in complying with direct orders or investigating complaints.

For the purpose of this report, all premises where foodstuffs are manufactured, stored or sold, will be classed under two headings:

First: Retail Stores, which comprise

Restaurants
Markets
Hotels
Bakeries

Delicatessen Stores
Grocery Stores
Confectionery Stores
Butcher Stores

Second: Factories, which comprise the following forms of business:

- a. Breaking out egg yolk for food or other purposes.
- b. Manufacturing confectionery, mineral and carbonated waters.
- c. Preserving and canning fruits and vegetables.
- d. Preparing and preserving meats and fish, manufacturing sausages and maintaining smoke houses.
- e. Rendering fat for food and other purposes, utilization of slaughter-house waste and manufacturing of fertilizer.
- f. Slaughter houses for poultry, cattle, calves, sheep, lambs, hogs and horses.

The most important class of business from the viewpoint of this division is the food factory, because the greater part of the output of the factories is consumed by the inhabitants of the City of New York.

When making inspections of retail stores, the inspectors are chiefly concerned with the sanitary conditions. They do not make examinations of foodstuffs, but, in all cases where milk is sold without a permit or when foodstuffs are apparently unwholesome or of a suspicious character, a reference is made to the proper Inspector of Foods.

Factories.

As previously stated, the factories are considered to be of the greatest importance and, for this reason, each class of factory will be treated separately.

a. *Breaking out egg yolk for food and other purposes.*—This class of factory, as a rule, uses the yolk of eggs, which for various reasons, is considered unfit for human consumption in its raw state. Some of the raw material is invariably offensive to the smell and is of such a nature as to create extremely insanitary conditions.

b. *The manufacture of confectionery, mineral and carbonated waters.*—This class of factory is one that requires constant supervision on the part of the Department. The manufacturing of confectionery, as is well known, tends to create extremely insanitary conditions, which are dangerous from the standpoint of health. The finished product is

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not packed air-tight, is often allowed to remain exposed to flies and may form a culture ground for the bacteria of diseases which are transmitted by the fly. The manufacture of ice cream necessitates the use of large quantities of ice, and it is therefore necessary to provide proper drainage for the waste water. In the manufacture of mineral and carbonated waters adequate facilities for filtering the water used must be installed. Proper appliances for thoroughly cleansing bottles must also be provided.

c. *Preserving and canning fruits and vegetables.*—The work of the Department in this class of factory may be fully covered by the statement that it insists upon perfect sanitary arrangements within the premises, with proper receptacles and adequate arrangements for the disposal of waste material.

d. *Preparing and preserving meats and fish, manufacturing sausages and maintaining smoke houses.*—This class of factory is one that requires constant and careful supervision, chiefly because the business is conducted upon a small scale by a class of persons who do not seem to realize the necessity of cleanliness and that the use of the smoke house is liable to create a nuisance in the adjoining neighborhood.

e. *Fat rendering for food and other purposes, utilization of slaughter-house waste and manufacture of fertilizers.*—This class of business is most frequently carried on in conjunction with cattle, calves, sheep, lamb and hog slaughter houses, but in some instances this is not the case. The interior arrangements must be such as to permit of thorough and easy cleansing at all portions of the premises. The fats which are rendered for food purposes must be kept entirely separate from other fats and the rendering must be done in separate portions of the building.

Chicken Slaughter Houses.

These slaughter houses are required to be located in buildings which are not used for dwelling purposes and in a section which is not thickly populated. The character of the neighborhood is also taken into consideration, and in those sections where the religious beliefs of the people do not make it necessary to have fowl killed in any particular manner, the requirements as to location are more severe. Also in those sections, if there are a sufficient number of slaughter houses to serve the population within the area, the conditions are again made more stringent. This difference of procedure is explained by the fact that even under the most favorable conditions these slaughter houses are the cause of many complaints due to the character of the animals handled, and as this business is conducted on a small scale with a few irresponsible employees who do not seem to realize the importance of scrupulous cleanliness, offensive odors escape unless the greatest care is exercised at all times.

The sanitary inspectors are instructed to visit all poultry slaughter houses within their districts at least once a week.

Cattle, Calves, Sheep, Lambs and Hog Slaughter Houses.

These slaughter houses are of necessity kept under supervision both by the Food and Sanitary Inspectors, for they are liable at any time to become a nuisance to the neighborhood in which they are located. The possibility of a nuisance arising is not so much due to the methods of slaughtering or to the lack of precautions taken to maintain the premises in a cleanly condition, as to the reduction and utilization of slaughter-house waste, which is carried on in conjunction with the business of slaughtering animals. For this reason one Inspector who is thoroughly conversant with all the methods now employed, is permanently detailed to slaughter houses to the exclusion of all other work.

FOOD AND MILK INSPECTION.

The following is a list of the various forms of business for which a permit is required by this Department and which are inspected by the Sanitary Inspectors of this Division.

To keep cows.

To keep and sell live poultry in crate lots only at wholesale.

To cart fat and bones (out of town).

To use well water.

To keep oysters for sale at retail.

To keep oysters grown outside the City of New York for sale at wholesale within the City of New York.

To manufacture artificial mineral and carbonated waters.

To prepare and preserve meats and fish, manufacture sausages and maintain smoke-houses.

To render fat for food and other purposes; utilize slaughter-house waste and manufacture fertilizer.

To break out eggs for food and other purposes.

To conduct slaughter houses for poultry, cattle, calves, sheep, lambs, hogs, horses.

Food Inspection—Sanitary Supervision* (Complaints, Notices and Orders).

	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York.
Complaints—						
Citizens' complaints received.....	597	206	80	49	12	944
Complaints received from other Divisions.....	41	40	20	7	1	109
Complaints filed by Inspectors.....	1,826	568	221	91	111	2,817
Total complaints.....	2,464	814	321	147	124	3,870
No cause for action.....	541	120	38	39	6	744
Duplicates.....	41	.....	4	.....	.....	45
Complaints referred to other Divisions.....	17	14	1	2	.....	34
Complaints referred to other Departments.....	25	5	2	1	.....	33
Complaints returned for Notice or Order.....	1,835	671	273	105	118	3,002
Complaints pending at end of year.....	5	4	3	.....	.....	12
Total.....	2,464	814	321	147	124	3,870
Notices and Orders—						
Notices and Orders issued during year.....	1,792	769	275	90	116	3,042
Complied with before legal action.....	1,587	683	262	82	112	2,726
Complied with after legal action.....	59	9	2	.....	1	71
Rescinded.....	4	.....	.....	.....	1	5
Notices and Orders pending (at end of year).....	142	77	11	8	2	240
Number of criminal actions during year.....	77	7	.....	.....	1	85

	Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.		New York.	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Total—												
Notices and Orders complied with during year.....	1,646	100.0	692	100.0	264	100.0	82	100.0	113	100.0	2,797	100.0
Number complied with within 30 days.....	1,171	71.1	534	77.1	156	59.1	74	90.2	96	84.9	2,031	72.6
Number complied with within 60 days.....	377	22.9	124	18.0	76	28.7	6	7.3	12	10.6	595	21.2
Number complied with not within 60 days.....	98	5.9	34	4.9	32	12.1	2	2.4	5	4.4	171	6.1

*From May 27, 1912.

Food Inspection.—Sanitary Supervision. * (Nature and Result of Inspections.)

CITY OF NEW YORK.	Total.	Original, no Cause for Action.	No Cause for Complaint.	Complaint Returned for Notice.	Duplicate.	Reference.	Not Complied With	Progressing.	Complied With.	Held for Observation.	Abated by Personal Effort.	Special Report.	Summons Procured.
Buildings—ventilation, plumbing, overcrowding, clean, leaky roofs and heating:													
Dwelling.....	410	201	64	18	...	15	3	2	2	30	...	75	...
Factory.....	74	5	11	8	...	2	8	13	3	10	...	8	...
Hotel.....	25	3	2	2	...	...	1	1	...	8	...	8	...
Hotels.....	153	28	13	14	...	...	23	36	18	12	6	5	...
Privies, school sinks or cesspools.....	4	1	2	...	...	...	...	...	...	...	...	1	...
Stables.....	40	29	2	4	...	2	...	...	...	6	...	3	...
Store.....	515	123	8	109	10	...	59	33	53	57	16	15	...
Tenement.....	141	46	21	12	10	16	1	1	2	25	1	10	...
Theater.....	5	3	1	1	...	...	3	...	...	26	1	3	...
Office building.....	90	29	27	1	...	...	...	...	...	...	...	...	...
Business pursuits under regulations or permit:													
Bachelor shop.....	2	...	...	...	...	1	...	...	1	...	...	...	...
Baths.....	245	...	...	...	...	...	...	...	...	16	...	...	...
Bottling works or bottled water.....	96	43	3	28	2	...	1	41	15	390	2	227	...
Fat rendering.....	184	146	2	...	...	1	5	...	...	10	3	361	...
Fertilizer.....	7	...	...	1	...	...	...	...	...	5	1	13	...
Live poultry.....	349	61	5	15	...	...	13	2	8	91	2	148	4
Lodging house.....	4	...	...	...	...	...	...	...	...	3	...	...	...
Miscellaneous permits.....	2,203	26	...	84	1	2	10	14	...	...	...	1	...
Miscellaneous permits { cattle.....	1,690	26	11	39	...	...	16	22	16	440	5	1,008	2
Slaughter houses { poultry.....	2,346	671	180	103	1	...	207	90	86	29	8	94	...
Stables { cellar.....	74	28	...	4	...	...	5	10	7	8	2	10	...
Stables { cow.....	276	42	4	11	2	...	36	7	15	31	...	127	...
Smoke house.....	1,793	22	63	53	2	3	124	65	23	523	9	906	...
Cleaning, grading and draining:													
Alleyways.....	5	1	2	...	...	...	...	...	1	1	...	...	...
Areas.....	11	5	...	...	...	...	1	...	...	...	5	...	...
Excavations.....	1	...	...	1	...	...	...	...	...	...	...	...	...
Iceboxes.....	5	4	...	...	...	...	...	...	...	...	...	...	...
Iceboxes.....	8	...	...	...	...	...	1	...	4	...	2	1	...
Lots—vacant.....	9	1	1	...	...	...	2	...	...	1	4	...	...
Roofs.....	10	7	1	...	...	...	1	...	...	1	...	...	...
Streets.....	9	...	...	3	...	...	...	...	...	...	...	...	...
Streets.....	9	...	...	13	...	1	...	3	...	8	...	11	...
Yards.....	49	7	4	...	...	...	...	...	2	...	...	...	...

FOOD AND MILK INSPECTION.

Food stuffs prepared or sold:

Bakery.....	1,026	291	42	152	9	4	162	53	112	132	38	31
Butcher.....	4,648	1,197	100	694	3	12	1,005	182	602	320	461	72
Dairy or milk.....	161	65	2	20	...	...	26	13	7	19	8	1
Delicatessen.....	1,233	553	16	140	...	5	173	29	98	52	104	3
Grocery.....	4,183	1,789	41	540	6	23	496	108	370	230	573	7
Miscellaneous.....	2,648	650	79	375	4	15	382	73	206	424	110	318
Packing house.....	601	261	25	8	...	2	75	14	14	96	11	95
Restaurant.....	7,683	1,803	144	1,182	28	40	1,446	795	923	810	433	79

General nuisances:

Animals kept without a permit.....	1	1	...	...	...	...	...	...	...	...	...	...
Garage.....	1	1	...	...	...	...	...	...	...	...	...	...
Noises (machinery, motor boats, pumps, dogs, from horses, other animals.....)	2	...	...	...	...	...	...	...	1	1	...	...
Odors from chemical factory.....	9	...	...	...	...	...	...	...	...	9	...	...
Odors from rendering plants.....	1	...	1	...	...	...	...	...	...	...	...	...
Odors from restaurant or cooking.....	16	13	...	...	...	...	...	...	1	2	...	...
Smoke, power.....	1	...	...	...	...	...	...	...	...	...	...	...
Swamp land—ditches, etc.....	8	2	1	1	...	...	...	...	4	...	...	...
Unclassified.....	12	...	...	5	...	...	...	...	6	...	...	...
Removal of refuse:	142	2	2	8	...	...	13	...	9	18	4	86

Removal of refuse:

Dead animals.....	1	1	...	...	...	...	...	...	...	...	...	...
Rat and bones.....	188	187	...	1	...	...	...	...	...	...	...	...
Garbage.....	5	4	...	1	...	...	...	...	...	...	...	...

Water:

Public water supply.....	1	...	...	1	...	...	...	...	...	...	...	...
Wells, springs, etc.....	31	...	...	...	...	...	...	...	...	11	...	20
Total.....	34,333	9,807	882	3,714	68	152	4,396	1,607	2,617	4,356	1,998	4,727
												9

* From May 27, 1912.

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MILK INSPECTION IN THE CITY.

Twenty-five inspectors were employed in seeing that the milk entering the city was properly handled and safeguarded until it reached the consumer. The magnitude of this problem may be realized when it is considered that approximately two million (2,000,000) quarts of milk are received daily, that the milk enters at 15 different terminals, is inspected as delivered in 6,000 wagons, and is dispensed at 14,000 stores and 15,000 restaurants, hotels and clubs.

Of the inspectors assigned to city milk inspection, one was detailed for six months to the Division of Laboratories, two for six months to the Division of Communicable Diseases, and another to food inspection other than milk. These left practically only twenty-two inspectors of foods assigned solely to city milk inspection for the year.

Enforcement of Grading System.

On January 4, 1912, the Board of Health adopted certain amendments to the Sanitary Code, and subsequently revised the rules and regulations in order to make effective the new classification of milk sold in New York City.

The first step taken in the enforcement of these rules was to notify the dealers in making application for permits, to state which grade or grades they intended to sell. These applications were investigated by the Country Division which then recommended that permits be granted, according to the grade or subdivision the dairy producing the milk came under. After the dealers had received permits they were immediately notified to label their milk in accordance with the requirements of their permits.

It was felt that the success of the plan of grading the milk depended largely upon the enforcement of proper labeling, and by September 1, 1912, practically all the milk sold was labeled with the proper grade or designation.

In view of the fact that it was found that a large percentage of milk received in New York City was of the Grade C class, and that to exclude this milk from sale would have created a milk famine, the Board of Health amended its regulations for this grade and permitted its sale in stores, provided it was properly labeled. Immediately after this amendment was put into effect the following signs were posted in stores where Grade C milk was sold:

WARNING.

The milk sold in this Store is
fit for cooking Purposes
only.

GRADE C

Displayed by Order of the
Board of Health.

These signs were printed in English German, Italian and Yiddish. After these signs had been posted by the inspectors, a number of storekeepers immediately notified their dealers that they would not sell Grade C milk, and demanded Grade B, and as a result, the dealers redoubled their efforts to get their milk into the Grade B class.

FOOD AND MILK INSPECTION.

At the close of 1912, it is estimated that the daily milk supply of New York City may be classified as follows:

GRADE A.		Quarts.
1. Certified.....		12,800
Guaranteed.....		2,000
2. Inspected Milk (Raw).....		4,200
3. Selected Milk (Pasteurized).....		12,000
GRADE B.		
1. Selected Milk (Raw).....		700,000
2. Pasteurized Milk.....		725,000
GRADE C.		
For Cooking.....		244,000
Total.....		1,700,000

NOTE: The amount of milk sold in the winter months is materially less than that sold in summer.

It is also estimated that within three months the Grade B Pasteurized milk will be increased by 200,000 quarts, and in view of the number of requests for reinspections made by dealers who desire to get into the Grade B Selected Milk (Raw) class, a material increase will also be shown in its figures.

Control of Stores.

One of the most difficult problems in the handling of the milk supply and one to which a great deal of attention was given in 1912, was the sale of clean milk in clean stores.

The control of stores has been maintained by means of the permit system. Prior to October, 1910, permits were issued for an indefinite period and were good until revoked. Since that date all permits expired one year from date of issue. This rule, however, applied only to new permits and as no steps had been taken to rescind permits issued prior to October, 1910, one of the first steps to be undertaken in 1912 was the rescinding of all these old permits and the issuing of yearly permits.

The system of scoring stores was also changed, and the requirements were made more stringent. The extent to which this work was conducted may be seen from the following figures:

17,994 permits recommended granted
11,640 permits recommended revoked
862 prosecutions made for selling milk without a permit
\$1,746.50 fines collected.

This work in most instances has shown good results, as it has driven out of business a number of very dirty stores, has increased materially the amount of bottled milk sold daily and has resulted in the establishment of a number of stores solely for the sale of milk.

Milk Containers.

Another important feature of milk control, to which considerable attention was given, was the question of clean empty containers. The responsibility for unclean containers rests as much with the consumer as with the storekeeper and dealer, but up to the present time no action has been taken by the Department against the consumer. A large percentage of the consumers, however, are cleaning their bottles, but in some sections of the city dealers have found it almost impossible to secure the return of clean containers and rather than lose their customers accept the unclean empty containers and have erected depots for their cleansing. One company alone spends \$25,000 annually for this purpose.

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The district inspectors have insisted that all storekeepers clean the empty containers. If unclean containers are found, the storekeeper is warned and if the containers are subsequently found unclean, prosecution follows.

During the summer months inspectors were detailed to night duty, and devoted most of their time to the inspection of empty containers which were being returned to the country. As a result, a number of dealers have employed special men, to inspect empty containers as they are unloaded from milk wagons to the railroad platform, and if any unclean containers are found they are returned to the depot for cleaning.

As in former years, a number of samples of milk, cream and condensed milk were collected for chemical analysis, and whenever the milk was found to be below standard, criminal proceedings were instituted. Wherever a high bacterial count was found, the dealer from whom the samples were taken was notified that immediate steps must be taken to remove the conditions causing it. If after repeated warnings the bacterial count continued to be excessive, the revocation of the permit was recommended. When milk was found to have a temperature exceeding 50 degrees Fahrenheit, it was destroyed.

During the summer months complaints were received that the milk offered for sale in restaurants was very poor. The Commissioner therefore directed that the established ruling that milk sold in hotels, restaurants and clubs, was part of a meal and was not sold as milk, should be disregarded and that all restaurants be required to have permits limiting them to the sale of Grade A and Grade B milk.

City Milk Inspection—1908 to 1912.

	1908	1909	1910	1911	*1912
Inspectors.....	22	24	24	23	21
Number of Inspections.....	109,282	115,250	127,450	104,670	125,642
Number of specimens examined.....	101,049	98,064	120,928	178,185	161,326
Number of samples of milk taken for chemical analysis.....	6,268	7,052	10,029	6,527	8,709
Number of samples of milk taken for bacteriological examination.....	7,817	4,559	8,290	20,387	27,529
Quarts of milk destroyed.....	19,793	12,678	15,715	18,690	19,577
Permits issued.....	8,275	7,383	8,032	9,131	17,994
Permits revoked for violation of law.....	338	481	401	3,907	11,640
Section 53—Selling adulterated milk—					
Arrests.....	303	440	367	227	380
Sentence suspended.....		148	135	107	114
Fines.....					
Section 55—Selling adulterated condensed milk—					
Arrests.....		1		2	
Sentence suspended.....		1			
Fines.....				\$500	\$50
Section 56—Selling milk without permit—					
Arrests.....	5	3		59	862
Sentence suspended.....				38	199
Fines.....		10		71	\$1,746.50
Section 57—Selling adulterated cream—					
Arrests.....	42	150	145	33	57
Sentence suspended.....		22	32	9	28
Fines.....		\$1,965	\$2,275	\$290	\$815
Section 183—Unclean milk containers—					
Arrests.....	196	276	180	331	462
Sentence suspended.....		59	25	24	52
Fines.....		\$1,113	\$679	\$1,241	\$1,243.50
Total arrests.....	547	870	692	652	1,761
Total cases suspended sentence.....	189	230	197	177	361
Amount of fines.....	\$4,477	\$8,883	\$7,439	\$5,592	\$11,386

*From September 1, 1912, ten inspectors of foods were assigned temporarily from the County Division to the City Division.

FOOD AND MILK INSPECTION.

Milk Inspection Within New York

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	Stores.	Wagons.	Stores.	Wagons.	Stores.	Wagons.	Stores.	Wagons.	Stores.	Wagons.	Stores.	Wagons.
Field—												
Permits issued during year.....	14,649	3,345	7,025	1,918	5,124	1,081	1,549	101	688	155	263	90
Permits revoked during year.....	13,330	7	6,641	6	4,872	1	1,387	.....	330	.....	100	.....
For discontinuance of selling.....	9,693	7	4,971	.....	3,282	.....	1,028	.....	312	.....	100	.....
For violation of law.....	3,637	.....	1,670	6	1,590	.....	359	.....	18	.....	.....	.....
Inspection—												
Regular inspections.....	109,201	15,875	55,734	7,412	33,856	4,151	12,058	2,131	3,502	393	4,951	1,488
Inspections at receiving stations.....	73	533	41	367	26	64	2	43	3	59	1	.....
Inspections at pasteurizing plants.....	260	.....	190	.....	66	.....	.....	.....	3	.....	.....	.....
Total.....	109,534	16,108	55,965	7,779	33,948	4,215	12,060	2,174	3,598	452	4,953	1,488
Specimens of milk examined.....	114,644	56,479	55,864	24,449	38,174	11,103	12,834	13,728	3,570	3,397	4,202	3,802
Samples taken for chemical analysis.....	5,595	3,114	2,802	1,457	1,710	746	833	457	105	118	145	336
Samples taken for bacteriological examination.....	14,728	12,861	8,944	6,756	4,499	4,897	478	734	563	182	244	232
* Total samples taken.....	20,323	15,915	11,746	8,213	6,209	5,043	1,311	1,191	668	300	389	568
Conditions found—												
Inspections finding milk above 50 degrees.....	490	86	192	35	207	39	86	11	4	1	1	.....
Inspections finding adulteration.....	479	140	265	72	160	44	42	14	3	7	9	3
Warming given.....	121	51	54	24	49	21	11	3	2	3	5	.....
Prosecuted.....	358	89	211	48	111	23	31	11	1	4	4	3
Rooms connected contrary to sanitary code.....	5,771	1,598	.....	.....	3,551	.....	599	.....	23	.....	.....	.....
Icebox badly drained.....	792	297	421	.....	421	.....	73	.....	1	.....	.....	.....
Icebox unclean.....	2,340	1,087	969	.....	269	.....	269	.....	15	.....	.....	.....
Store unclean.....	5,128	2,044	.....	.....	2,095	.....	353	.....	36	.....	.....	.....
Utensils unclean.....	2,607	37	924	12	971	20	160	4	12	1	.....	.....
Milk not properly cooled.....	1,213	59	524	47	525	7	164	5	5	.....	.....	.....
Persons found selling without permit.....	4,148	132	1,769	51	2,087	53	316	27	28	1	.....	.....
Infectious disease.....	28	.....	27	.....	1	.....	.....	.....	.....	.....	.....	.....
Action taken—Destruction of milk—												
Lots of milk destroyed for being over 50 degrees.....	400	86	192	35	207	39	86	11	4	1	1	.....
Quarts so destroyed.....	7,716	4,703	2,426	1,724	4,012	2,725	1,188	214	80	40	10	.....
Lots of milk destroyed for being sour.....	371	11	27	63	215	3	38	3	5	.....	.....	.....
Quarts so destroyed.....	4,408	574	1,282	268	2,413	187	575	69	79	.....	59	.....
Lots of milk destroyed for being otherwise adulterated.....	117	3	76	.....	28	.....	11	1	2	.....	.....	.....
Quarts so destroyed.....	2,153	73	1,369	.....	456	55	198	18	130	.....	.....	.....
Total quarts destroyed.....	14,277	5,300	5,077	1,992	6,881	2,967	1,961	301	289	40	69	.....

* Several specimens may be examined at a single inspection.

† Samples taken and analyzed.

‡ The technical definition of adulteration is found in section 53 of the Sanitary Code, the chief items being "containing less than 11.50 per centum of milk solids" and "containing less than 3 per centum of fats." In enforcement a distinction is made between samples whose milk solids are found between 11.50 per cent. and 11.4 per cent.: the former are made occasions for warning only, the latter for prosecution.

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MILK INSPECTION IN THE COUNTRY DISTRICTS.

The year 1912 opened with 33 inspectors detailed to this work. Early in September in order to enforce more properly the rules and regulations in regard to labeling, it became necessary to somewhat reduce this force and transfer the men to the city. Reductions were made from time to time until there were but 16 inspectors left for country work.

At the beginning of the year, routine systematic inspection was made of dairies irrespective of their class or character. Creameries were visited one after another. The dairies patronizing the respective creameries were inspected, and if conditions did not indicate that the milk produced or handled was fairly safe and wholesome, steps were taken to prevent either dairy or creamery from making shipments to this city. The standard required for shipments was based upon the score card now in use, and entailed a minimum score of 33 per cent. on methods. Reinspections were undertaken to ascertain whether improvements had been made after warnings had been given, and if little or no improvement had taken place, the dairy's products were excluded. Investigations at creameries were continuous in order to insure the exclusion of such dairies. On January 29, 1912, the exclusion of dairies and creameries was discontinued and up to this date two creameries and more than two hundred dairies had been excluded.

The procuring of samples of milk in the country for bacteriological analysis was conducted by a squad of five men under the charge of a supervisor. Exclusion was enforced whenever bacteria counts and dairy scores were found to indicate an improper milk supply. This work was practically discontinued on January 15, 1912, although since that date samples have been taken from time to time, by district inspectors.

A change in country milk inspection came with the enforcement of the classification system. The decisive step to enforce the present system as outlined in Section 56 and 56-a of the Sanitary Code and in the rules and regulations amended by the Board of Health on January 4, 1912, took place on January 8, 1912, when all milk dealers were notified to submit to the Department within ten days a statement showing what grade of milk each intended to sell.

The work from February 1, 1912, consisted, for the greater part, in the inspection and reinspection of dairies for the purpose of enrolling the name under the various designations. By August 1, 1912, every dealer had been provided with proper permits, in accordance with the new rules and regulations. In many instances seven or eight reinspections were made during the past year, whereas the number of inspections per dairy had previously averaged about one in eight months. During the year, 41,292 dairy inspections were made, and about 5,100 of Grade B (Raw) dairies were enrolled.

Generally speaking, great progress had been made by dealers, in inducing farmers to produce Grade B Selected Milk (Raw), which had been augmented by the offer by dealers, of a premium for the production of this grade of milk. The paying of a premium has also tended to secure a better supply for pasteurization, since numerous dealers are compelled to pay this premium for milk produced on dairies sufficiently high for Grade B Selected Milk (Raw), even though the milk is pasteurized and sold as Grade B (pasteurized) for which no score requirement is set.

On the other hand, it was found that since the exclusion system had been dropped, conditions upon a large number of dairies had again become very unsatisfactory. The careless dairyman felt that he could ship his product, if the dealer whom he patronized was in a position to transform into Grade B (pasteurized) Milk, or if the dealer could find ready sale for the product as Grade C. It was deemed necessary to exercise some restriction on the more insanitary dairies, and a modified exclusion system was again resorted to, a low limit exclusion point of 40 per cent. total on the score card being fixed.

As the endeavors of the past year have been devoted principally to such dairies as supply dealers desirous of selling Grade B Selected Milk (Raw) in this city, this modified exclusion system has acted as a check on only a small part of the total number of dairies producing the milk sold in this city.

FOOD AND MILK INSPECTION.

Conditions under which Grade C Milk is produced, are to a large degree satisfactory, because the bulk of such milk consists of the product of dairies that have fallen somewhat short of producing Grade B Selected Milk (Raw).

To enforce properly the present rules and regulations for the sale of milk makes it necessary to establish a method of checking at creameries. It has been found in some instances, where permits have been granted for the sale of Grade B Selected Milk (Raw), including only a part of the dairies patronizing a creamery, that the entire supply received has been shipped as Grade B Selected Milk (Raw). Detection of improper labeling in such cases is impossible in the city, for there is no way of telling whether the milk has been produced upon a dairy entitled to produce the grade of milk mentioned upon the label. It is for this reason that checking in the country becomes imperative. There are few creameries which cannot obtain and ship a certain amount of Grade B Selected Milk (Raw) and the issuance of a permit for a small amount of such milk provides a subterfuge for the labeling of the greater quantity of the milk as Grade B. Owing to the small force of men available, constant checking is at present impossible. The visit of the inspector to the creamery in his routine inspections must, with the exception of isolated cases, be depended upon as the only means at the command of the Department at the present time to prevent this practice.

Milk Inspection Outside of the City of New York.

	Dairy.		Creamery.		Total.	
	1911	1912	1911	1912	1911	1912
Number of inspectors on duty.....					33	32
Number of inspections.....	32,269	41,292	2,514	1,909	34,783	43,201
Number of samples of milk taken for bacterial examination.....	21,532	1,397	1,229	727	22,761	2,124
Number of samples of water taken for chemical analysis.....	22	8	10	5	32	13
Number of samples of water taken for bacterial examination.....	17	1	44	53	61	54
Number scoring between 1% and 25%.....	484	427	3	2	487	429
Number scoring between 26% and 50%.....	11,116	10,119	122	86	11,238	10,205
Number scoring between 51% and 75%.....	15,401	23,736	1,125	504	16,526	24,240
Number scoring between 76% and 100%.....	1,638	5,486	1,013	814	2,651	6,300
Average score.....	51.88	60.03	73.31	74.04		
Number of inspections and found business discontinued.....	210	179	48	17	258	196
Number inspections refused.....	127	105	5	5	132	110
Number special reinspections.....	7,317	2,664	768	349	8,085	3,013
Number of inspections, milk excluded, from the City of New York.....	1,303	226		3	1,303	229
Number of inspections, notified to resume sending milk to the City of New York.....	707	75			707	75
Number infectious diseases investigated.....	119	143	20	7	139	150
Number cows examined by veterinarian.....	16,150	7,943			16,150	7,943

PASTEURIZATION OF MILK.

During the past year the practice of pasteurizing milk for sale in the City of New York, increased very greatly and the work of its supervision and control called for increased effort.

The resolution of the Board of Health which went into effect on January 1, 1912, and by which the milk sold in New York was regarded and classified as "Grade A-B-C" produced two striking results.

First, those dealers who believed that the sale of raw milk was preferred to the sale of pasteurized milk, made greater efforts to induce the farmers to place their farms in such a satisfactory condition that they would be scored on the Department score card sufficiently high to permit them to come within the class of farms allowed to produce "Grade B Selected Milk (Raw)."

Secondly, those dealers who favored the sale of pasteurized milk were induced to equip more plants for this purpose and to increase their output. Those dealers also who after

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making considerable effort found that they were not able to produce "Grade B Raw Milk," and who also found that the demand for "Grade C Milk" was small and growing smaller, were induced to equip plants with pasteurizing apparatus in order that the milk for which they found no sale, could, by pasteurization, be converted into "Grade B Milk."

At the beginning of the year, permits for the pasteurization of milk had been granted only to plants located within the city or its immediate surroundings. There were probably six or eight plants outside the city equipped with milk heating and holding apparatus, but none of them was in condition to comply fully with the requirements of the Department. At that time there were eighteen pasteurizing plants within the city, at which about 270,000 quarts of milk were pasteurized daily, most of which was sold in bottles and very little in bulk. At the end of the year, six new pasteurizing plants, at which about 95,000 quarts of milk were pasteurized daily, had been equipped within the city, and the plants previously equipped had increased their daily output by at least 25,000 quarts. During the year, permits to pasteurize milk outside the city were granted to thirty-four plants and applications were made for permits by 20 additional plants which had been equipped to pasteurize milk. By the end of the year 336,000 quarts of milk were being pasteurized daily, outside the city. About 40 per cent. of the entire milk supply is at present pasteurized.

The heating and the holding of the milk must comply with the regulations of the Department of Health as indicated by the following table:

No less than 158 degrees for at least 3 minutes.
No less than 155 degrees for at least 5 minutes.
No less than 152 degrees for at least 10 minutes.
No less than 148 degrees for at least 15 minutes.
No less than 145 degrees for at least 18 minutes.
No less than 140 degrees for at least 20 minutes.

It has been recommended that the milk be heated to a temperature somewhat higher, and held for a period of time somewhat longer than indicated in this table in order to provide a sufficient margin of safety, and allow for possible variations in the temperature, and in the time for which the milk is held.

Over 400 inspections of pasteurizing plants nearly equally divided between the city and the country districts, were made during the year and 20 permits for pasteurizing plants in the city and 34 permits in the country were granted.

Milk Inspection—Complaints.

	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York.
Complaints pending (December 31, 1911).....	15	13	3	....	....	31
Citizens' complaints received.....	219	107	64	22	9	421
Complaints received from other divisions.....	....	....	4	....	....	4
Inspectors' complaints filed.....	....	2	1	....	....	3
Total complaints.....	234	122	72	22	9	459
No cause for action.....	225	111	65	20	9	430
Duplicates.....	....	....	1	....	....	1
Complaints referred to other divisions.....	....	5	3	2	....	10
Complaints returned recommending prosecution.	3	4	....	....	....	7
Complaints returned recommending denial of application for permit.....	....	....	1	....	....	1
Complaints returned recommending revocation of permit.....	2	1	....	....	....	3
Complaints pending (December 31, 1912).....	4	1	2	....	....	7
Total.....	234	122	72	22	9	459

FOOD AND MILK INSPECTION.

Milk Inspection—Criminal Actions.

New York.	Adulterated Milk.		Adulterated Cream.		Unclean Receptacles.		Adulterated Condensed Milk.		Selling Milk Without a Permit.		Interference with Inspector.		Total.	
	Store.	Wagon.	Store.	Wagon.	Store.	Wagon.	Store.	Wagon.	Store.	Wagon.	Store.	Wagon.	Store.	Wagon.
MAGISTRATES' COURTS.														
New arrests.....	314	66	47	11	389	73	.....	.....	753	109	.....	.....	1,503	260
Held on bail*.....	314	66	47	10	4	1	.....	.....	10	62	.....	.....	375	140
Discharged.....	.....	.....	.....	.....	15	4	.....	.....	71	8	.....	.....	86	12
Fined.....	.....	.....	.....	.....	326	66	.....	.....	527	30	.....	.....	853	96
Sentence suspended.....	.....	.....	.....	.....	44	2	.....	.....	145	9	.....	.....	189	12
Amount of fines.....	.....	.....	.....	.....	\$618.50	\$295	.....	.....	\$1,006.50	\$91.00	.....	.....	\$2,525	\$386
COURT OF SPECIAL SESSIONS.														
Cases pending, December 31, 1911.	29	4	20	.....	6	.....	.....	.....	1	.....	.....	.....	56	5
New cases.....	314	66	47	10	4	1	.....	.....	10	62	.....	.....	375	140
Total.....	343	70	67	10	10	1	.....	.....	11	62	.....	.....	431	145
\$300 bond forfeited.....														
Discharged.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Fined.....	2	.....	.....	.....	.....	.....	.....	.....	3	8	.....	.....	9	11
30-day jail sentence.....	206	30	30	5	.....	1	.....	.....	.....	4	.....	.....	236	47
Sentence suspended.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cases pending, December 31, 1912..	89	25	20	2	6	.....	.....	.....	6	7	.....	.....	127	34
Total.....	41	6	11	3	4	.....	.....	.....	2	43	.....	.....	58	52
Amount of fines.....	343	70	67	10	10	1	.....	.....	11	62	.....	.....	431	145
	\$5,706	\$1,825	\$440	\$375	.....	\$10	.....	.....	.....	\$80	.....	.....	\$6,146	\$2,340

* Cases held on bail in Magistrates' Courts are transferred to Court of Special Sessions for trial.
 NOTE.—Milk cases for Boroughs of Manhattan and The Bronx are tried in Court of Special Sessions, Manhattan.
 Milk cases for Boroughs of Brooklyn and Queens are tried in Court of Special Sessions, Brooklyn.
 Milk cases for Borough of Richmond are tried in Court of Special Sessions, Richmond.

DIVISION OF CONTAGIOUS DISEASES.

During 1912 a new form of postal card, on which appeared a list of the diseases to be reported, was issued to physicians for the reporting of contagious diseases, and every report was acknowledged by an official postal. In previous years it had been customary to acknowledge only reports of diphtheria, scarlet fever and measles, and these acknowledgments were formerly conveyed by means of a circular which contained the rules of the department relating to these diseases. On January 1, 1912, 23 district medical inspectors were dropped from the Division of Contagious Diseases, leaving 22 on the roll, and 30 registered nurses were appointed who were required, under the direction of district medical inspectors, to make the necessary revisits to cases of contagious disease. This change in the method of isolating and inspecting cases of contagious disease at their homes has not been entirely satisfactory. During those months of the year in which large numbers of cases of contagious disease were reported, there was considerable delay in their termination and it frequently became necessary to obtain assistance from the Division of Child Hygiene and to invoke the aid of the diagnosticians.

On December 5th an automobile ambulance was placed in commission at the Department stable, foot of East Sixteenth Street, Borough of Manhattan, and is used to convey cases of contagious disease from the outlying portions of all the boroughs to the Willard Parker Hospital in Manhattan and the Kingston Avenue Hospital in Brooklyn. It has proved to be a valuable addition to the hospital service and, especially on long hauls, shortens the period of conveyance very materially. An electric ambulance has also been ordered and will probably be placed in commission during the early part of 1913.

DISINFECTION.

During the year a change was made in the method of terminating cases of diphtheria and measles, and new regulations have been put in force. Experience has shown that diphtheria bacilli, as a rule, die out in a short time after drying and exposure to light, and that when a person suffering from diphtheria has completely convalesced and the throat is free from diphtheria bacilli there is little likelihood of any infection from the sickroom. Conditions, however, are quite different when the patient is removed from the sickroom at the height of the illness, or when death occurs at this time. Under these conditions, it is probable that fresh discharges are present, and that these contain living diphtheria bacilli. The action of the department, therefore, depends upon the circumstances attending the termination of the case and the period at which this takes place.

(1) If the patient completely convalesced in the sickroom, the department does not perform disinfection, but insists that the apartment be thoroughly cleaned and aired. After recovery of the patient at home, the woodwork of the room in which the patient has been isolated must be thoroughly scrubbed with hot soda solution (one-half pound to three gallons) and the room thoroughly aired for at least twenty-four hours before being again occupied. Goods will be removed to the Department of Health Disinfection Station for sterilization and will then be returned.

(2) If the patient is removed from the sickroom during the height of the illness or dies at this period, the room with its contents will be disinfected, and all goods exposed to the contagion will be removed to the Department of Health Disinfection Station and returned after disinfection by steam. Bedding or other infected goods from such infected rooms must not be taken from the house or thrown into the street by the owner. After the goods have been removed and the premises reinspected, if conditions are found satisfactory, the inspector will issue the necessary school permits. Children in the family are not

CONTAGIOUS DISEASES.

allowed to attend school until they have received a certificate from the Department of Health.

Experience has shown that there is little likelihood of any infection from the sickroom or when the person suffering from measles has completely convalesced. The main danger, as already stated, is from fresh discharges. So far as disinfection is concerned, therefore, the action of the department depends upon the manner and period of termination.

The regulations are the same as those for diphtheria with the exception that, in the case of measles, the department does not remove goods for sterilization.

This method has proved very satisfactory and the wisdom of the change has been shown by the appreciation of the public and the absence of secondary cases.

Animal Inspection.

	New York. 1911.	New York. 1912.	Man- hattan.	Brook- lyn.	The Bronx.	Queens.	Rich- mond.
Number of veterinarians on duty.	9	9	4	2	1	1	1
Horses—							
Examinations of horses.....	34,790	35,361	28,768	2,118	1,669	939	1,867
Blood specimens taken.....	616	1,049	570	71	193	18	197
Horses tested with mallein..	431	372	162	94	88	25	3
Glandered horses condemned and destroyed.....	1,138	1,479	676	444	214	135	10
Post-mortem examinations of horses.....	66	137	15	76	21	20	5
Inspections of stables.....	1,090	7,823	6,010	627	738	266	182
Vaccination of horses.....	1,350	518	360	9	148	1	.....
Dogs—							
Examination of dogs.....	4,509	6,386	1,331	829	652	1,463	2,111
Animals kept under observa- tion.....	330	599	125	131	119	223	1
Persons examined for dog bite.....	.....	3,603	1,633	845	588	433	104
Dogs destroyed.....	.....	280	14	50	12	203	1
Cases of rabies.....	212	241	21	66	41	45	68
Cows—							
Examinations of cows.....	4,179	163	131	.....	3	2	27
Cows tested with tuberculin.	1	58	58	.....	.....	.....	.....

Department Stables, 1911-1912.

	New York, 1911.	New York, 1912.	Man- hattan, 1912.	Brook- lyn, 1912.	The Bronx, 1912.	Queens, 1912.	Rich- mond, 1912.
Ambulance Drivers—							
Cases removed to hospitals.	6,278	6,816	3,693	1,993	1,023	.....	107
Bodies removed to morgue..	43	19	11	7	1	.....	.....
Other visits made.....	6,080	5,615	1,341	3,652	622	.....	.....
Total visits.....	12,401	12,450	5,045	5,652	1,646	.....	107
Goods Wagon Drivers—							
Visits, infected goods re- moved.....	33,122	29,181	11,869	11,274	4,366	1,238	434
Visits, disinfected goods re- turned.....	29,449	25,212	10,613	9,220	3,896	1,087	396
Other visits made.....	6,632	10,297	4,745	1,257	1,542	2,325	428
Total visits.....	69,203	64,690	27,227	21,751	9,804	4,650	1,258
Stable Service—							
Average number of horses cared for.....	65	60	14	20	12	9	5
For ambulances and goods wagons.....	62	56	13	20	10	8	5
For executive officials.....	3	4	1		2	1	

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Goods Disinfected and Destroyed.

	Lots of goods disinfected.		Lots of goods destroyed.	
	1912.	1911.	1912.	1911.
Manhattan.....	16,010	16,337	1,441	1,328
Brooklyn.....	41,350	36,265	865	1,183
The Bronx.....	4,134	4,026	341	289
Queens.....	1,095	1,438	147	170
Richmond.....	396	490	38	34
New York.....	62,985	58,556	2,832	3,004

Disinfection of Premises, 1911-1912.

	New York, 1911.	New York, 1912.	Man- hattan.	Brook- lyn.	The Bronx.	Queens.	Rich- mond.
Number of disinfectors on duty..	42	39	21	9	5	3	1
Houses visited—							
Disinfection performed.....	51,570	56,612	27,626	17,130	7,404	3,459	993
Disinfection postponed.....	2,571	5,324	3,430	907	579	407	1
Rooms disinfected.....	81,475	84,878	44,946	22,787	11,191	4,510	1,444
Disinfections performed—							
Diphtheria.....	11,290	9,376	4,210	3,112	1,390	452	212
Scarlet fever.....	13,077	10,059	4,755	3,458	1,290	425	131
Measles.....	16,892	24,315	10,707	8,084	3,538	1,535	451
Smallpox.....	22	20	2	10	2		
Tuberculosis.....	8,717	9,906	6,268	2,027	931	506	174
Cerebrospinal meningitis...	140	114	77	22	10	4	1
Glanders (horses).....	1,189	1,532	835	366	199	114	18
Glanders (human).....		1		1			
Typhoid fever.....	57	82	28	9	31	9	5
Poliomyelitis.....		25	24			1	
Miscellaneous.....	186	1,182	720	35	13	413	1
Total.....	51,570	56,612	27,626	17,130	7,404	3,459	993
By attending physician.....	628	870	198	223	71	331	47

Vaccinations.

	Vaccinations per- formed.		Certificates is- sued.	
	1912.	1911.	1912.	1911.
Manhattan.....	27,563	81,141	7,935	10,437
Brooklyn.....	21,231	25,651	5,976	5,466
The Bronx.....	10,210	10,233	5,221	4,151
Queens.....	1,694	5,580	1,121	1,127
Richmond.....	294	288	185	150
New York.....	60,992	122,893	20,438	21,331

CONTAGIOUS DISEASES.

Division of Contagious Diseases—Prevalence of Contagious Diseases, 1908-9-10-11 and 12.
Case Rate by Years, Boroughs and Diseases Reported.

	Number of cases reported.					Number per 1,000 of population.*						
	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Diphtheria and Croup—												
Year 1908.....	16,431	8,263	5,451	1,648	785	284	3.7	3.6	3.6	5.0	3.3	3.7
Year 1909.....	15,097	7,933	4,735	1,335	704	330	3.3	3.3	3.0	3.8	3.1	4.2
Year 1910.....	16,990	8,590	5,023	1,696	992	239	3.5	3.8	3.0	3.8	3.4	2.7
Year 1911.....	13,485	6,511	4,492	1,496	777	209	2.7	2.7	2.6	3.0	2.5	2.3
Year 1912.....	13,533	6,246	4,678	1,679	680	250	2.6	2.5	2.6	3.1	2.0	2.7
Scarlet Fever—												
Year 1908.....	24,426	12,059	8,123	2,529	1,208	417	5.5	5.2	5.4	7.7	5.5	5.4
Year 1909.....	12,475	5,909	4,275	1,161	856	274	2.7	2.5	2.7	3.3	3.4	3.5
Year 1910.....	18,924	8,722	6,474	2,264	985	479	3.9	3.7	3.9	5.1	3.4	5.5
Year 1911.....	15,793	6,796	6,136	1,663	876	319	3.1	2.8	3.5	3.4	2.8	3.5
Year 1912.....	12,710	6,023	4,321	1,618	551	203	2.4	2.5	2.4	3.0	1.6	2.2
Measles—												
Year 1908.....	38,276	18,264	12,807	4,612	1,897	696	8.6	7.9	8.4	14.1	8.1	9.1
Year 1909.....	31,954	14,766	9,881	3,714	2,118	1,475	7.0	6.2	6.4	10.6	8.6	18.0
Year 1910.....	35,374	14,396	12,630	4,988	2,580	780	7.3	6.1	7.0	11.3	8.9	9.0
Year 1911.....	25,540	13,449	7,728	2,879	1,013	471	5.1	5.6	4.5	5.9	3.2	5.2
Year 1912.....	39,018	16,813	12,188	5,296	3,627	1,094	7.5	6.8	6.8	9.9	10.8	11.8
Smallpox—												
Year 1908.....	17	6	6	2	3	.....	0.004	0.003	0.004	0.006	0.01	.....
Year 1909.....	9	5	3	.....	.....	1	.....	0.002	0.002	.....	.....	0.01
Year 1910.....	16	13	2	1	.....	.....	0.003	0.006	0.001	0.002	.....	.....
Year 1911.....	15	5	4	1	5	.....	0.003	0.002	0.002	0.002	0.01	.....
Year 1912.....	22	3	17	2	.....	.....	0.004	0.001	0.009	0.003	.....	.....
Chicken Pox—												
Year 1908.....	5,928	2,718	2,045	710	297	158	1.3	1.2	1.3	2.1	1.2	2.0
Year 1909.....	6,765	3,244	2,264	593	347	317	1.4	1.3	1.4	1.7	1.4	4.0
Year 1910.....	5,534	2,595	1,886	503	248	302	1.1	1.1	1.1	1.1	0.8	3.4
Year 1911.....	6,758	3,327	2,365	570	279	217	1.3	1.3	1.3	1.1	0.8	2.4
Year 1912.....	7,649	3,259	2,902	742	345	401	1.4	1.3	1.6	1.3	1.0	4.3
Whooping Cough—												
Year 1908.....	1,182	467	414	133	36	132	0.2	0.2	0.2	0.4	0.1	1.7
Year 1909.....	2,752	951	1,105	358	198	140	0.6	0.4	0.7	1.0	0.8	1.7
Year 1910.....	2,018	717	844	170	88	199	0.4	0.3	0.5	0.3	0.3	2.2
Year 1911.....	2,210	1,546	939	240	124	361	0.6	0.5	0.5	0.4	0.3	4.0
Year 1912.....	2,132	752	972	198	114	96	0.4	0.3	0.5	0.3	0.3	1.0

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Division of Contagious Diseases—Prevalence of Contagious Diseases, 1908-9-10-11 and 12
Case Rate by Years, Boroughs and Diseases Reported.—Continued.

Number of cases reported.							Number per 1,000 of population.					
New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	
Parotiditis—												
Year 1908.....	2,131	1,372	489	140	16	114	0.4	0.5	0.3	0.4	0.07	
Year 1909.....	2,438	1,113	1,037	192	66	10	0.5	0.4	0.6	0.5	0.2	
Year 1910.....	1,645	1,080	413	71	46	35	0.3	0.4	0.2	0.1	0.1	
Year 1911.....	3,020	1,850	818	225	31	96	0.5	0.7	0.4	0.5	0.1	
Year 1912.....	3,311	1,219	1,392	235	168	277	0.6	0.5	0.7	0.4	0.5	
German Measles—												
Year 1908.....	823	544	152	53	43	31	0.1	0.2	0.1	0.1	0.1	
Year 1909.....	582	270	174	28	86	24	0.1	0.1	0.1	0.08	0.3	
Year 1910.....	1,571	871	471	141	69	19	0.3	0.3	0.2	0.3	0.2	
Year 1911.....	1,090	758	243	162	20	27	0.2	0.3	0.07	0.3	0.06	
Year 1912.....	2,055	697	633	182	32	511	0.3	0.2	0.3	0.3	0.09	
Cholera*—												
Year 1911.....	3	1	1			1	0.0006	0.0004	0.0005		0.01	
Year 1912.....												
Glanders, Human†—												
Year 1909.....	1	1					0.0002	0.004				
Year 1910.....												
Year 1911.....												
Year 1912.....	6	3	3				0.001	0.001	0.001			
Anthrax†—												
Year 1912.....	1	1					0.0001	0.0004				
Tetanus†—												
Year 1912.....	7	7					0.001	0.002				
Leprosy†—												
Year 1912.....	2	2					0.0003	0.0008				
Hydrophobia†—												
Year 1912.....	4	1	3				0.0007	0.0004	0.001			
Total Diseases—												
Year 1908.....	89,214	43,693	29,487	9,827	4,375	1,832	20.1	19.0	19.7	30.0	18.8	
Year 1909.....	72,073	34,212	23,474	7,381	4,435	2,571	15.7	14.5	15.2	12.2	18.1	
Year 1910.....	82,022	37,384	27,743	9,834	5,008	2,053	17.0	15.9	16.8	22.4	17.3	
Year 1911.....	68,914	34,246	22,606	7,236	3,125	1,701	13.8	14.3	13.2	14.9	10.0	
Year 1912.....	80,456	35,046	27,109	9,952	5,517	2,832	15.5	14.3	15.2	18.7	16.5	

* No record previous to 1911.

† No record previous to 1909.

‡ No record previous to 1912.

CONTAGIOUS DISEASES.

Contagious Diseases, District Medical Inspection, 1912.

[illegible]

Contagious Diseases—District Medical Inspection, 1912.—Continued.

[illegible]

CONTAGIOUS DISEASES.

Contagious Diseases, District Medical Inspection, 1912.—Continued.

[illegible]

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Contagious Diseases, District Medical Inspection, 1912.—Continued.

BOROUGH OF THE BRONX.	Totals.																		
	Diphtheria.	Scarlet Fever.	Measles.	Chicken Pox.	Whooping Cough.	Smallpox.	Parotitis.	German Measles.	Noncontagious.	Asiatic Cholera.	Glanders, Human.	Plague.	Relapsing Fever.	Anthrax.	Leprosy.	Tetanus.	Yellow Fever.	Typhus Fever.	Hydrophobia.
Cases reported during year.	1,794	1,740	5,455	775	201	2	236	193	1,689	1	1	1	1	1	1	1	1	1	1
Corrected totals of cases re- ported.	1,679	1,618	5,296	742	198	2	235	182	1,689	1	1	1	1	1	1	1	1	1	1
Cases quarantined at home.	1,365	1,271	5,022	659	152	1	169	156	1,689	1	1	1	1	1	1	1	1	1	1
Cases treated in contagious dis- ease hospitals.	309	272	141	141	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1
Cases isolated in other hospitals or institutions.	5	75	133	83	46	1	66	23	1,689	1	1	1	1	1	1	1	1	1	1
Visits to cases.	4,596	7,445	10,111	1,200	8	2	11	233	1,689	1	1	1	1	1	1	1	1	1	1

CONTAGIOUS DISEASES.

Contagious Diseases, District Medical Inspection, 1912.—Continued.

CITY OF NEW YORK.	Diphtheria.	Scarlet Fever.	Measles.	Chicken Pox.	Whooping Cough.	Smallpox.	Parotiditis.	German Measles.	Noncontagious.	Asiatic Cholera.	Glanders, Human.	Plague.	Relapsing Fever.	Anthrax.	Leprosy.	Tetanus.	Yellow Fever.	Typhus Fever.	Hydrophobia.	Totals.
Cases reported during year.....	16,380	13,696	40,625	8,038	2,170	23	3,334	2,116	.....	.....	9	.....	.....	1	2	7	.....	.....	4	86,402
Corrected totals of cases reported.....	13,533	12,716	39,018	7,649	2,132	22	3,311	2,055	.....	.....	6	.....	.....	1	2	7	.....	.....	4	80,456
Cases quarantined at home.....	10,786	9,638	36,925	7,390	1,977	1	3,180	1,997	.....	.....	4	.....	.....	1	2	7	.....	.....	1	71,909
Cases treated in contagious disease hospitals.....	2,636	2,921	1,411	16	1	21	.....	16	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	7,023
Cases isolated in other hospitals or institutions.....	111	157	682	243	154	.....	131	42	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3	1,524
Visits to cases.....	48,804	58,933	99,526	17,362	149	75	88	3,783	15,317	.....	1	.....	.....	.....	.....	.....	.....	.....	2	244,040

Contagious Diseases, District Medical Inspection, 1912.—Continued.

BOROUGH OF MANHATTAN.	Diphtheria.	Scarlet Fever.	Measles.	Chicken Pox.	Whooping Cough.	Smallpox.	Parotitis.	German Measles.	Noncontagious.	Asiatic Cholera.	Glanders, Human.	Plague.	Relapsing Fever.	Anthrax.	Leprosy.	Tetanus.	Yellow Fever.	Typhus Fever.	Hydrophobia.	Totals.
Cases reported during year	8,287	6,542	17,507	3,377	752	3	1,239	720	.....	.....	3	.....	.....	1	2	7	.....	.....	1	38,441
Corrected totals of cases re- ported	6,246	6,023	16,813	3,259	752	3	1,239	697	.....	.....	3	.....	.....	1	2	7	.....	.....	1	35,046
Cases quarantined at home	4,953	4,303	15,670	3,219	751	.....	1,227	678	.....	.....	3	.....	.....	1	2	7	.....	.....	1	30,515
Cases treated in contagious dis- ease hospitals	1,515	1,644	910	1	.....	3	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,077
Cases isolated in other hospitals or institutions	78	76	233	39	1	.....	12	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	454
Visits to cases	26,384	29,324	45,004	6,702	89	41	51	1,240	6,924	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	115,759

DIVISION OF COMMUNICABLE DISEASES

During 1912 three new bureaus were established in the Division of Communicable Diseases. The first was charged with the supervision of typhoid fever, cerebrospinal meningitis, and acute poliomyelitis, and the second, with the control of venereal diseases, while the third was a bureau of supplies, requisitions and accounts.

Moving picture exhibits were given in the city parks throughout the summer, with the assistance of the Committee for the Prevention of Tuberculosis of the Charity Organization Society. An exhibit was prepared for the International Congress on Hygiene and Demography which took place in Washington, D. C., during September. An exhibit was also provided for the Association of Tuberculosis Clinics.

The following new publications were issued during the year:

Monograph No. 1.—The Registration and Sanitary Supervision of Pulmonary Tuberculosis in New York City.

Monograph No. 2.—The Tuberculosis Clinics and Day Camps of the Department of Health.

New circulars of instruction and information:

1. Cerebrospinal Meningitis.
 2. Circular of Information Regarding Acute Poliomyelitis (Infantile Paralysis) (information for the public).
 3. Circular of Information Regarding Acute Poliomyelitis (Infantile Paralysis) (information for physicians).
 4. Circular of Information Regarding Venereal Diseases.
 5. Circular of Information Regarding Immunization Against Typhoid Fever.
- New editions of the Handbook of Division of Communicable Diseases and of the Handbook of Help for Consumptives.

A series of weekly lectures for the instruction of nurses of the sanitary bureau was organized and delivered. These were given with the assistance of the School of Philanthropy, Teachers' College, The Nurses' Settlement and the Charity Organization Society.

	1910	1911	1912
Inspectors on duty.....	28	28	27
Days on duty.....	6,593	6,571	6,190
Nurses on duty.....	130	114	91
Days on duty.....	23,803	22,776	18,542
Total inspections.....	204,023	195,622	178,824
Total cases communicable diseases reported.....	28,151	23,091	24,398
Total number employees.....	366	359	362

The reduction in the number of district nurses is due to the fact that a number of nurses were detailed to duty in the branch registration offices. There is a corresponding diminution in the number of inspections by nurses. It will be noticed that the total number of cases of communicable diseases reported was slightly greater than in 1911.

Tuberculosis.

The system of branch registration offices, which was introduced in the latter part of 1911, was extended throughout the entire city and new branch offices were established at Centre and Walker streets, 80th street and Broadway, 22 Vandam street, and at 229

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East 57th street, all in the Borough of Manhattan. The office at 22 Vandam street serves also as a clinic. All the tuberculosis clinics of the department were consolidated, and each was placed in direct relation with its branch office, with a physician in charge to direct all tuberculosis work in the district. A simplified and more complete system of recording cases of tuberculosis was introduced. While the number of cases of tuberculosis in the register increased from 27,000 in 1911 to 32,000 in 1912, 1,500 fewer new cases were reported. The number of deaths was slightly greater than in 1911. Careful studies in regard to the number of tuberculous children in New York City were undertaken during the year and the results will be published later. Although the staff of district nurses was decreased from 114 to 91, 3,000 more visits were paid to new cases in 1912. The visiting of very ill, delinquent, and undiagnosed cases at their homes is now done by the attending physicians of the tuberculosis clinics, and the increased number of visits during 1912 illustrates the advantage of this new system. A decrease in the number of cases under observation from 7,413 on October 1, 1911, to 2,159 on October 1, 1912, was due to the distinction now made between cases under close sanitary supervision and those under periodical observation only. Almost as many visits were made by the physicians of the clinics as by the former staff of inspectors. During 1912 the staff of tuberculosis inspectors was abolished and their places taken by the physicians of the clinics. A new clinic was opened on May 6th at 22 Vandam street, Manhattan, replacing the Morgagni clinic. The clinics in Brooklyn and Queens joined the Association of Tuberculosis Clinics. The clinics at 81 Second street and 307 West 33rd street were renovated throughout.

A number of entertainments were given on public holidays for the children in the clinics.

Day Camps.

During 1912 the old ferryboat "Rutherford," which is used as a day camp for tuberculosis, was renovated throughout and new plumbing, shelters, etc., were installed. The "Rutherford" was removed permanently to a more satisfactory dock at the foot of Fulton street, Brooklyn. A number of entertainments were given for children and patients at the camps.

	1910	1911	1912
Cases in attendance Jan. 1st.....	133	153	146
New cases received.....	499	293	405
Cases discharged.....	446	366	387
Cases in attendance Oct. 1st.....	186	80	164

Four hundred and five new cases were received during 1912 as compared with 293 cases in 1911.

Clinic Relief Committees.

Clinic relief committees composed of the physician in charge and representatives of the auxiliary and of various charitable organizations were organized at the larger clinics. A Woman's Auxiliary of the Manhattan Tuberculosis Clinics took over the Chelsea Day Nursery at 346 West 37th street. A clinic physician and a department nurse were detailed to assist in the work.

Hospital Admission Bureau.

The two buildings used for this purpose were renovated throughout and electricity was installed in the one situated at 424 First avenue. The physician in charge was appointed an official examiner for the preventorium for children and for the New York Hospital for Incipient Tuberculosis at Ray Brook, N. Y. Two physicians were detailed to the Department of Charities to assist in the work.

COMMUNICABLE DISEASES.

	1911	1912
Total number of cases admitted to hospitals.....	8,663	9,326
Total number of cases discharged from hospitals..... (discrepancies due to deaths in hospitals)	6,035	6,539
Total number of cases admitted to Otisville Sanatorium.....	680	783
Total number of cases discharged from Sanatoria.....	525	683
Total number of cases forcibly removed to Riverside Sanatorium..	43	63
Total number of applicants for hospital care.....	6,959	7,053
Total number of persons refusing hospital care.....	506	436

Typhoid Fever.

An advisory committee of expert sanitarians was appointed during 1912, and has been of the greatest assistance in connection with the sanitary supervision of typhoid fever. Among the changes in procedure recommended by this committee and which have been put into effect are as follows: 1. The Sanitary Code has been amended so as to require superintendents of hospitals to report all cases of typhoid fever. 2. All inspections of sources of milk supply in the city and the country in connection with typhoid fever are now made by the Division of Communicable Diseases. 3. All physicians are required to furnish reasons for delayed reports. About 400 fewer cases of typhoid fever were reported in 1912 than in 1911, notwithstanding a sharp outbreak in the Borough of Brooklyn, especially in the Bay Ridge section, during the late summer which was probably caused by infected milk. There was also a well-marked outbreak in the Woodhaven section of the Borough of Queens which was probably due in part to an infection of the water supply. The milk supply responsible in Bay Ridge was very likely also responsible for some of the Queens Borough cases. The morbidity of typhoid fever in the Boroughs of Manhattan and The Bronx was lower than it has been for years. .

Cerebrospinal Meningitis.

All cases of this disease except those reported from hospitals are visited by a physician from the Research Laboratory and lumbar puncture and serum treatment are performed with the approval of the attending physician. A new circular of information was prepared and issued.

Acute Poliomyelitis.

A new circular of information was prepared and issued. In 1911, 128 cases of this disease were reported and in 1912, 344. This apparent increase was probably due to the increased attention paid to the disease by the medical profession. Its incidence in 1912 probably did not actually exceed that of 1911. Cases are kept in quarantine by inspectors of the Division of Communicable Diseases for a period of six weeks.

Venereal Diseases.

By resolution of the Board of Health, February 20, 1912, all public institutions were required to report all cases of venereal diseases coming under their observation after May 1st. The Wassermann or diagnostic clinic was transferred from the Research Laboratory to much larger quarters at Centre and Walker streets on December 2, 1912, where clinics are held to obtain material for the Complement Fixation Tests for syphilis, gonorrhœa and glanders, daily, from 9 to 10 a. m.

	Syphilis.	Chancroid.	Gonorrhœa.
Number of cases reported from May 1 to Dec. 31, 1912.....	2,124	288	2,418

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Diphtheria Antitoxin.

More work was performed by the individual antitoxin inspectors during 1912 than during 1911 for the reason that it was found necessary to reduce the staff by detailing permanently two inspectors to duty in the typhoid bureau. The work was, nevertheless, well done, and the case fatality of diphtheria which was 9.5% in 1911 sank to 8.3% in 1912.

Diagnosis Laboratory.

The microscopical agglutination test for glanders proving unsatisfactory, this work was transferred to the Research Laboratory where tests for this disease are now made by the Complement Fixation method. The work will be retransferred to the Diagnosis Laboratory during 1913. During the year the antiformin method of sputum examination was at last introduced. The number of examinations of sputum during 1912 exceeded that of 1911 by about 10,000, and the number of examinations of blood and urine for typhoid fever exceeded those of the previous year by about 6,000. The number of diagnostic outfits prepared during 1912 more than doubled those of 1911, and the number of supply stations for diagnostic outfits was increased from 483 to 512.

Tuberculosis—General Figures—1908 to 1912, inclusive.

Year.	*New Living Cases Reported, Phthisis.	Deaths, Phthisis, Cases not Previously Reported.	Total, New Cases Phthisis.	New Cases, Phthisis, per 1,000 of Population.	Total Deaths, Phthisis.	Deaths, Phthisis, per 1,000 of Population.
New York—						
1908.....	21,365	1,960	23,325	5.27	8,870	2.01
1909.....	23,570	2,097	25,667	5.62	8,643	1.89
1910.....	29,256	2,809	32,065	6.67	8,692	1.81
1911.....	22,396	2,117	24,513	4.92	8,790	1.76
1912.....	20,790	1,962	22,752	4.02	8,591	1.66
Manhattan—						
1908.....	13,357	1,377	14,734	6.42	4,423	1.93
1909.....	15,399	1,478	16,877	7.17	4,205	1.78
1910.....	19,432	1,948	21,380	9.13	3,975	1.70
1911.....	14,153	1,348	15,501	6.49	4,221	1.77
1912.....	12,721	1,208	13,929	5.22	4,068	1.67
Brooklyn—						
1908.....	5,824	409	6,233	4.17	2,484	1.66
1909.....	6,057	350	6,407	4.16	2,347	1.52
1910.....	7,068	524	7,592	4.61	2,430	1.48
1911.....	5,568	498	6,066	3.54	2,464	1.44
1912.....	5,336	492	5,828	3.004	2,441	1.37
The Bronx						
1908.....	1,393	93	1,486	4.54	1,508	4.61
1909.....	1,437	164	1,601	4.60	1,623	4.66
1910.....	1,899	188	2,087	4.75	1,781	4.05
1911.....	1,688	171	1,859	3.85	1,573	3.26
1912.....	1,872	128	2,000	3.52	1,580	2.98
Queens—						
1908.....	561	37	598	2.57	283	1.22
1909.....	549	76	625	2.56	309	1.26
1910.....	682	118	800	2.78	358	1.24
1911.....	773	78	851	2.75	361	1.16
1912.....	651	98	749	1.95	357	1.07
Richmond—						
1908.....	230	44	274	3.60	172	2.26
1909.....	128	29	157	2.04	159	2.04
1910.....	175	31	206	2.40	148	1.71
1911.....	211	22	236	2.65	171	1.92
1912.....	210	36	246	2.28	145	1.56

*Excluding duplicates.

COMMUNICABLE DISEASES.

Tuberculosis.

CITY OF NEW YORK.

	1909.	1910.	1911.	1912.
<i>Register—Living Cases.</i>				
Cases enrolled at beginning of year.....	29,736	36,652	27,477	32,635
Under care of private physicians.....	6,093	5,843	2,838	3,591
*Under care of dispensaries or clinics.....	2,189	5,476	5,762	2,671
At home and under supervision of department.....	8,748	11,863	6,056	10,207
In institutions in city.....	3,401	3,980	3,048	3,300
In institutions outside city.....	534	802	2,445	3,001
†Not found at address given.....	8,771	8,688	6,728	10,865
New (living) cases reported.....	23,570	29,256	22,396	20,790
By physicians.....	3,806	4,915	3,736	3,318
By sputum.....	4,309	3,853	3,845	3,385
By institutions.....	15,365	20,884	14,815	14,087
Cases received from other boroughs.....				824
Old cases resumed.....	703	1,543	5,248	3,315
Total living cases enrolled.....	54,009	67,451	55,121	57,564
Cases removed from register during year.....	17,357	39,974	22,486	26,352
Deaths.....	7,722	9,246	7,244	7,828
Removals from city.....	1,688	4,059	2,735	3,455
†Not found; held for 2 years.....	7,421	24,222	7,454	4,227
Recovered.....	526	1,847	5,053	10,842
Cases enrolled at end of year.....	36,652	27,477	32,635	31,212
Under care of private physicians.....	5,843	2,838	3,591	3,035
Under care of dispensaries or clinics.....	5,476	5,762	2,671	2,224
At home and under supervision of department.....	11,863	6,056	10,207	10,488
In institutions in city.....	3,980	3,048	3,300	4,716
In institutions outside city.....	802	2,445	2,001	2,580
†Not found at address given.....	8,688	6,728	10,865	8,169
Total.....	36,652	27,477	32,635	31,212
<i>District Inspection.</i>				
Inspectors:				
Premises visited on account of:				
†Deaths.....	6,296			
§Cases removing to hospitals.....	8,816			
§Cases removing from city.....	793			
§Cases changing address.....	800			
Cases "at home" visited on complaint.....	868	748	339	37
Suspected cases.....	804	1,451	1,503	408
Miscellaneous.....				455
Forcible removals.....				72
Total cases inspected.....	18,377			
Home visits by clinic physicians.....				2,474
Inspections by clinic physicians.....				1,821
Visits to cases inspected.....	23,583	6,196	4,324	
Total visits by inspectors.....	23,583	6,196	4,324	5,267
Nurses:				
Total new assignments.....				46,722
Of which new cases.....				22,909
Of which old cases.....				23,813
Total revisits and extra visits.....				164,151
Total visits by nurses.....				210,873
Total months all "at home" cases under observation by district nurses.....	1,074			
Visits to cases "at home" under observation.....	2,596			
Average visits per month per case "at home" under observation.....	2.4			
Visits to investigate or trace cases.....	9,401			
Total visits by district nurses.....	26,109	241,181	226,859	210,873
Disposition of Cases:				
Forcible removal to hospital.....	25	27	68	72
References of cases to hospitals.....	427	1,263	747	814
Renovations compelled by inspectors' complaints.....	179	1,411	977	1,208
Renovations made voluntarily.....	2,011	2,397	2,522	1,327
Disinfections of premises ordered.....	3,715	12,411	9,572	9,908
Disinfections of goods ordered.....	4,365	6,058	8,796	10,226
	5,362	5,923	7,021	7,987

* Other than the Department clinics.

† Held in current register 2 years; after that time, removed to files.

‡ From any one of several files; or not previously reported.

§ From any one of several files.

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Tuberculosis Clinics.

CITY OF NEW YORK.

	1909.	1910.	1911.	1912.
Diagnosis:				
Under observation for diagnosis January 1....	857	762	800	890
New patients examined during year.....	10,068	17,274	16,562	14,700
Readmitted for diagnosis.....	915	1,272	2,934	2,885
Total.....	11,840	19,308	20,296	18,475
Found not tuberculous and discharged.....	1,337	3,013	6,114	7,219
Suspected cases transferred to other clinics.....		1,343	1,344	756
Found tuberculous.....	5,444	9,140	6,099	6,001
Discontinuing, not coming for diagnosis.....	4,297	5,012	6,099	3,713
Under observation for diagnosis December 31..	762	800	640	786
Total.....	11,840	19,308	20,296	18,475
Cases Under Treatment:				
Under treatment January 1.....	2,257	2,240	2,981	3,497
New cases coming under treatment.....	10,068	17,274	16,562	14,700
Old cases readmitted.....	3,534	5,114	9,027	8,743
Total.....	15,859	24,628	28,570	26,940
Found not tuberculous and discharged.....	1,337	3,013	6,111	7,226
Deaths.....	134	138	138	216
Transferred to other clinics.....	2,953	5,268	3,104	1,774
Entered hospitals.....	336	455	510	1,034
Entered sanatoria.....	305	198	281	613
Discontinued, not found.....	672	508	520	707
Discontinued, not coming for treatment.....	7,882	12,067	14,898	11,341
Under treatment December 31.....	2,240	2,981	3,008	4,029
Total.....	15,859	24,628	28,570	26,940
Total visits of patients.....				100,764
Total treatments of patients.....	53,631	77,564	92,593	
Average visit per months per patient.....	2.38	4.5		
Prescriptions filled for clinic patients.....	70,983	85,044	117,949	123,661
Referred for hospital treatment.....	674	862		
Referred for charitable aid.....	225	465		
Home visits by clinic physicians.....				2,474

Cerebrospinal Meningitis, General Figures and Inspection—1912.

	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Cases reported.....	250	154	57	29	10	
Cases per 1,000 of population.....	.04	.06	.03	.05	.02	
*Deaths.....	196	128	35	21	9	3
Deaths per 1,000 of population.....	.03	.05	.02	.03	.02	.03
Total inspections.....	546	340	129	41	31	5
Disinfection of premises.....	148	111	23	7	7	
Disinfection of goods ordered.....	90	61	20	3	6	

*Deaths in this table include deaths from other forms of meningitis.

COMMUNICABLE DISEASES.

Typhoid Fever, General Figures and Inspection—1912.

	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Cases reported.....	3,076	1,184	1,284	256	309	43
Cases per 1,000 of population.....	.59	.48	.72	.48	.92	.46
Deaths from typhoid.....	499	192	231	26	48	2
Case fatality, per cent.....	16.2	16.2	17.9	10.1	15.5	4.6
Deaths per 1,000 of population.....	.09	.07	.13	.05	.14	.02
Cases inspected.....	3,076	1,184	1,284	256	309	43
Visit to cases.....	9,621	5,012	2,960	587	955	107
Disinfection of goods ordered.....	148	58	55	14	13	8
Disinfections of premises ordered.....	43	21	8	5	6	3

Diphtheria, General Figures—1908-1912 Inclusive.

Year.	Cases Reported.	Cases per 1,000 of Population.	Deaths.	Deaths per 1,000 of Population.	Cases Fatality Per Cent.	Per Cent. of Cases Reported Injected at Home by Department of Health.
New York—						
1908.....	16,431	3.71	1,758	.40	10.7	34.3
1909.....	15,097	3.31	1,714	.38	11.4	39.9
1910.....	16,940	3.52	1,715	.36	10.1	40.6
1911.....	13,485	2.71	1,281	.26	9.5	45.7
1912.....	13,533	2.61	1,125	.22	8.3	44.9
Manhattan—						
1908.....	8,263	3.60	939	.41	11.3	45.7
1909.....	7,933	3.37	963	.41	12.1	53.5
1910.....	8,990	3.83	898	.38	10.0	52.1
1911.....	6,511	2.73	657	.28	10.1	62.1
1912.....	6,246	2.56	529	.22	8.5	60.03
Brooklyn—						
1908.....	5,451	3.65	549	.42	10.0	20.0
1909.....	4,735	3.08	556	.36	11.7	22.1
1910.....	5,023	3.05	558	.34	11.1	23.2
1911.....	4,492	2.63	395	.23	8.8	27.8
1912.....	4,678	2.63	400	.23	8.6	30.8
The Bronx—						
1908.....	1,648	5.04	158	.48	9.6	35.0
1909.....	1,335	3.84	102	.29	7.7	38.1
1910.....	1,696	3.86	136	.31	8.0	43.5
1911.....	1,496	3.10	144	.30	9.6	44.0
1912.....	1,679	3.14	125	.24	7.4	43.2
Queens—						
1908.....	785	3.38	91	.39	11.6	16.7
1909.....	764	3.13	73	.30	9.6	16.5
1910.....	992	3.44	104	.36	10.5	19.8
1911.....	777	2.51	63	.20	8.1	21.0
1912.....	680	2.03	54	.16	7.09	17.2
Richmond—						
1908.....	284	3.73	21	.34	10.2	22.5
1909.....	330	4.29	20	.26	6.1	31.5
1910.....	239	2.80	19	.22	7.9	41.0
1911.....	209	2.34	22	.25	10.6	25.0
1912.....	250	2.71	17	.18	6.8	17.6

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**Diphtheria, Injection, Intubation and Immunization—1912.*

	New York.	Man- hattan.	Brook- lyn.	The Bronx.	Queens.	Rich- mond.
Injection of Antitoxin—						
Total cases of diphtheria reported.....	13,533	6,246	4,678	1,679	680	250
Total cases injected by Department In- spectors.....	6,077	3,750	1,440	726	117	44
Percentage of total cases injected by Department Inspectors.....	44.9	60.03	30.8	43.2	17.2	17.6
†Cases injected by private physicians..	1,407	552	620	182	07	46
Percentage of total cases injected by private physicians.....	10.8	8.8	13.2	10.8	9.8	18.4
By Department Inspectors.....						
‡Cases injected considered as diph- theria.....	3,045	1,579	962	384	89	31
Deaths.....	156	80	45	18	11	2
Case fatality, per cent.....	5.1	5.1	4.7	4.7	12.4	6.5
Deaths, less cases dying within 24 hours after injection.....	108	68	21	12	6	1
Corrected case fatality, per cent...	3.6	4.3	2.2	3.2	7.1	3.3
By private physicians.....						
Cases injected considered as diph- theria.....	1,107	419	464	124	58	42
Deaths.....	75	24	39	2	6	4
Case fatality per cent.....	6.8	5.7	8.4	1.6	10.3	9.5
Deaths, less cases dying within 24 hours after injection.....	42	16	21	.....	4	1
Corrected case fatality, per cent...	4.0	3.9	4.7	.....	7.1	2.6
Laryngeal cases—						
Cases injected by Department In- spectors.....						
Total laryngeal cases.....	1,031	687	238	66	32	8
Deaths.....	93	45	32	9	7	.....
Fatality, per cent.....	9.0	6.5	13.5	13.6	21.9	.....
Cases intubated by Department Inspectors.....	239	110	89	24	14	2
Deaths.....	56	22	23	6	5	.....
Fatality per cent.....	23.4	20.0	25.8	25.0	35.7	.....
Cases not intubated.....	792	577	149	42	18	6
Deaths.....	37	23	9	3	2	.....
Fatality per cent.....	4.7	4.0	6.04	7.1	11.1	.....
Immunization—						
Total immunizations by Department Inspectors.....	8,421	4,401	2,108	1,421	324	167
Number contracting disease be- tween 2 and 30 days.....	30	17	8	4	1	.....
Visits—						
Total visits to diphtheria cases.....	14,455	7,967	4,150	1,766	466	106
Average visits per case.....	2.4	2.1	2.9	2.4	4.0	2.4
Total injections.....	6,359	3,931	1,512	742	130	44

* Quarantine is maintained and disinfections are ordered by the Division of Contagious Diseases.

† With antitoxin furnished free by the Department of Health.

‡ Excluding cases not showing diphtheria bacilli and those entering Department Hospitals.

COMMUNICABLE DISEASES.

Diagnosis Laboratory—Specimens Examined and Results of Examination—1912.

	New York.	Man- hattan.	Brook- lyn.	The Bronx.	Queens	Rich- mond.
Diphtheria—						
Bacteriological examination for diag- nosis.....	38,393	21,500	9,429	5,382	1,369	713
Showing diphtheria bacilli.....	9,631	4,989	2,691	1,371	419	161
Not showing diphtheria bacilli.....	28,762	16,511	6,738	4,011	950	552
Later cultures.....	29,629	12,582	13,372	2,200	1,048	427
Other cultures.....	2,844	1,394	955	36	3	456
Total cultures.....	70,866	35,476	23,756	7,618	2,420	1,596
Tuberculosis Sputum—						
Specimens examined.....	40,227	23,475	11,384	3,737	1,156	475
Showing tubercle bacilli.....	9,226	5,350	2,554	905	304	113
Showing no tubercle bacilli.....	31,001	18,125	8,830	2,832	852	362
Typhoid—						
Widal reaction:						
Specimens of blood examined.....	11,897	5,171	4,065	1,446	926	289
Showing reaction.....	1,891	672	830	154	191	44
Showing no reaction.....	9,559	4,322	3,077	1,252	677	231
Indecisive.....	447	177	158	40	58	14
Diazo reaction:						
Specimens examined.....	3,442	1,360	1,236	536	288	22
Showing diazo reaction.....	491	175	204	55	54	3
Showing no diazo reaction.....	2,938	1,180	1,028	478	233	19
Showing doubtful reaction.....	13	5	4	3	1	0
Malaria—						
Specimens examined.....	2,728	1,272	809	433	190	24
Showing malaria plasmodia.....	250	134	64	34	11	7
Showing no malaria plasmodia.....	2,478	1,138	745	399	179	17
Cerebro-spinal Meningitis—						
Specimens examined.....	50	22	19	5	2	2
Showing meningococci.....	5	2	3	0	0	0
Showing no meningococci.....	45	20	16	5	2	2
Glanders—						
Specimens examined.....	440	341	7	48	4	40
Showing marked reaction.....	40	29	1	3	0	7
Showing slight reaction.....	115	87	3	12	2	11
Showing no reaction.....	285	225	3	33	2	22
Pus (Gonococcus)—						
Specimens examined.....	1,851	1,851	0	0	0	0
Showing gonococci.....	743	743	0	0	0	0
Showing no gonococci.....	1,045	1,045	0	0	0	0
Indecisive.....	63	63	0	0	0	0
Miscellaneous—						
Average number of culture stations....	531	261	142	69	49	10
Visits to collect specimens.....	69,749	26,713	26,022	6,751	7,515	2,748
Cultures tubes prepared.....	173,710	173,710	0	0	0	0
Number of swabs prepared.....	175,625	175,625	0	0	0	0
Number of laboratory preparations made.....	131,501	131,501	0	0	0	0
Number of Widal outfits prepared.....	15,650	15,650	0	0	0	0
Number of diazo outfits prepared.....	5,138	5,138	0	0	0	0
Number of malaria outfits prepared....	6,420	6,420	0	0	0	0
Number of C. S. M. outfits prepared....	1,337	1,337	0	0	0	0
Number of glanders outfits prepared....	1,440	1,440	0	0	0	0
Number of sputum jars prepared.....	66,094	66,094	0	0	0	0
Number of gonococcus outfits prepared..	5,327	5,327	0	0	0	0

DIVISION OF CHILD HYGIENE

Staff.

	New York City.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.
Director of the Division.....	1					
Assistant Director of the Division.....	1					
Borough chiefs.....	4	1	1	1	1	
Supervising inspectors.....	20	9	2	7	2	
Superintendent of nurses.....	1					
Supervising nurses.....	18	8	2	6	2	
Medical inspectors.....	129	55	13	51	8	2
School medical inspection.....	82	35	8	30	7	2
Vaccination.....	4	2		2		
Issuance of employment certificates.....	10	3	2	4	1	
Inspection of midwives and foundlings..	5	2	1	2		
Inspection of institutions and day nurseries.....	2	1		1		
Infants' milk stations.....	18	9	1	8		
Clinics for school children.....	8	3				
Nurses.....	245	104	23	93	18	7
School medical inspection.....	172	70	19	62	15	6
Inspection of midwives and foundlings..	10	4	1	3	2	
Milk stations.....	56	28	2	24	1	1
Clinics for school children.....	7	2	1	4		
Nurses' assistants—Milk stations.....	55	27	2	24	1	1
Cleaners.....	23	10	2	9	1	1
Clerks and typists.....	35	18	3	11	2	1

SUPERVISION OF MIDWIVES.

During the year 1912, 1,524 women applied for permits to practice midwifery. Of this number 1,325 permits were granted, three were denied and the remainder were under consideration at the end of the year. As these permits are in force for one year from their date of issue, the number of permits granted represents the number of women licensed to practice midwifery. Out of 135,655 births reported to the department during the year, 82,390 were reported by physicians and 53,265 by midwives.

Previous to 1912 there was no specific appropriation for the supervision of midwives and it was necessary for the Division of Child Hygiene to employ its medical school inspectors for investigation of the women and their equipment before recommending the granting of the permit, as well as for subsequent inspections to ascertain whether the rules governing the practice of midwives had been complied with. At the beginning of 1912 a special force of five medical inspectors and ten nurses was assigned to the duty of supervising midwives and foundlings boarded in private homes. By this means the character of the supervision has been greatly improved. The inspectors and nurses of this special staff have been able to familiarize themselves with the women and their medical work. The inspectors make the preliminary investigations before the application for a permit is forwarded to the Board of Health. The nurses make subsequent inspections and instruct the midwives in regard to asepsis, the technique of nursing and the care and feeding of infants.

Midwives who practice medicine illegally are liable to prosecution by the County Medical Society and those who perform criminal operations come under the jurisdiction of the District Attorney. The Division of Child Hygiene investigates all cases coming under either classification whether the complaint originates with an inspector or nurse or is sent to the department by a citizen, and when any evidence is discovered that might be made the basis for further investigation or legal action the matter is referred to the proper authorities. Permits to practice midwifery are revoked by the Board of Health upon the legal

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conviction of the midwife or upon evidence that the rules and regulations of the department have been disobeyed. In case of a simple infraction of the rules, the midwife is warned against a repetition of the offense and the second infraction is followed by the recommendation that her permit be revoked. During 1912, 71 permits were revoked for various reasons, including failure to use the one per cent. solution of nitrate of silver as a preventive of ophthalmia neonatorum, the occurrence of puerperal sepsis, improper equipment, negligence, and illegal practice. Midwives are supplied with a special form of postal card, upon which they are required to report all cases of sore eyes occurring in the new-born. This rule has been well observed. Each case reported is visited by an ophthalmologist for the purpose of making a definite diagnosis. During 1912, midwives reported 91 cases of sore eyes, of which 44 proved to be ophthalmia neonatorum. Physicians reported 12 such cases, nine of which were ophthalmia neonatorum, institutions reported 61 cases, and the nurses nine, the positive diagnosis of ophthalmia neonatorum being made in 60 and three cases respectively. With the present force it has been possible to refer these cases to proper agencies for treatment, and, by repeated visits, to determine that the proper treatment has been received. In no instance has the department obtained evidence that blindness has resulted, although persistent efforts have been made to follow the course of all cases reported. All deaths from puerperal septicæmia are investigated and when a midwife has at any period attended such a case it is charged against her record. During 1912, a total of 203 deaths from this cause were reported. One hundred and forty of these women were wholly under the care of physicians at the time of confinement, while 44 were confined by midwives. In the remaining 19 cases no information in regard to the attendant could be obtained owing to the fact that the deceased left no near relative or friends or on account of removal of the family and the impossibility of locating them. While the character and the methods of practice of midwives have greatly improved during the past year, it has been evident that many of them are unfitted for their profession and do not maintain either the ethical or technical standards that are essential. The habitual delinquents are, generally speaking, the older midwives who have practiced for many years unsupervised and unrestrained. The younger women and those recently entering the profession are more amenable to instruction and are of a better type. The need of proper preliminary training and education is increasingly evident. The superior character and ability of the graduates of foreign schools, as well as of those graduated from the Bellevue Hospital School for Midwives in this city, are strikingly evident. Training of a similar nature should be made available and compulsory for all future applicants, and it is essential that facilities for this purpose should be available in the near future.

Supervision of Midwifery.

Year, 1912.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Applications brought forward.....	55	17	6	10	22	.....
New applications received.....	1,501	762	126	493	103	17
Total.....	1,556	779	132	503	125	17
Applications granted.....	1,325	731	105	373	107	9
Applications denied.....	3	0	0	3	0	0
Applications pending.....	228	48	27	127	18	8
Total.....	1,556	779	132	503	125	17
Permits expired.....	1,152	595	86	357	95	19
Permits revoked.....	71	63	8	0	0	0
Total number in force.....	1,390	675	127	470	105	13
Number first inspections.....	1,580	958	167	309	142	4
Number reinspections.....	10,847	4,030	661	5,716	411	29
Number not found.....	3,967	2,979	279	645	59	5
Number special investigations.....	40	25	0	15	0	0
Total inspections.....	16,434	7,992	1,107	6,685	612	38

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FOUNDLINGS BOARDED IN PRIVATE HOMES.

A special staff of five inspectors and ten nurses available during 1912 for the supervision of midwives and of foundlings boarded in private homes has resulted in increased efficiency in this direction. By limiting the duration of permits to one year it has been possible to maintain a more effective supervision of the holder of the permit and to limit more definitely the issuing of permits to women who are well able to give proper care to babies in their homes. The primary reason for boarding out in private homes infants who would be committed to the care of institutions is the reduction of the high infant mortality in this class of cases. While institutions provide such modern methods for the care of infants as are prescribed by their medical staff, and while their equipment is in most instances modern, the appallingly high infant death rate in foundling institutions still remains the most serious problem in the consideration of this subject, and fully justifies an extension of the system of boarding foundlings in private homes. In the hospitals, for instance, and foundling asylums, 4,522 deaths from all causes of infants under one year occurred during 1912 as contrasted with 9,693 similar deaths occurring in dwellings. The following tables show the gravity of the situation in the Borough of Manhattan, where the largest institutions of this kind are located:

Deaths from All Causes Under One Year of Age—1912.

	Institutions.	Dwellings.	Total.
New York City.....	4,522	9,693	14,215
Borough of Manhattan.....	3,358	4,275	7,633
Borough of The Bronx.....	208	900	1,108
Borough of Brooklyn.....	814	3,629	4,443
Borough of Queens.....	68	713	781
Borough of Richmond.....	74	176	250

Deaths from Diarrhæal Diseases Under One Year of Age—1912.

	Institutions.	Dwellings.	Total.
New York City.....	1,076	2,303	3,379
Borough of Manhattan.....	703	867	1,570
Borough of The Bronx.....	26	206	232
Borough of Brooklyn.....	306	951	1,257
Borough of Queens.....	18	215	233
Borough of Richmond.....	23	64	87

That this institutional mortality can be greatly reduced by boarding infants in private homes has been demonstrated beyond the possibility of doubt. In order, however, that such a practice should be productive of the greatest good, continued and persistent supervision of the women and their homes is essential, and in addition the women should receive instruction in infant hygiene and in the proper methods of feeding. During the past year, there has been increasing evidence of the desire of these women to be instructed and to give the best possible care to the infants under their charge. With the largely increased number of infants' milk stations under the control of the Department of Health, it has been possible to refer these foster mothers to the stations nearest their homes and thus to insure their

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supervision and control by the station doctor and nurse. The death rate among these infants could be still further reduced if the institutions would rescind their rule requiring that a baby shall be returned to the institution upon the first evidence of illness. The enforcement of this rule means in many cases that infants breast fed by the foster mothers are returned to the institution and fed artificially at a time which is least favorable for weaning. Proper medical care, with a continuance of breast feeding, would undoubtedly save a majority of their lives.

Supervision of Foundling Babies Boarded Out in Private Homes.

Year, 1912.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Applications brought forward.....	93	16	14	51	12	.....
New applications received.....	4,370	1,079	775	1,324	451	111
Total.....	4,433	1,095	789	1,375	463	111
Applications granted.....	3,862	1,519	717	1,128	407	91
Applications denied.....	104	8	9	76	5	6
Applications pending.....	467	168	63	171	51	14
Total.....	4,433	1,695	789	1,375	463	111
Permits expired.....	1,296	379	215	429	184	89
Permits revoked.....	2,588	1,157	433	726	272	.....
Total number in force.....	2,835	1,228	532	619	369	87
Number first inspections.....	5,941	1,907	875	1,575	627	57
Number reinspections.....	26,358	10,371	3,559	10,797	1,550	81
Number not found.....	4,441	2,843	483	1,029	74	12
Number special investigations.....	138	43	.....	95	.....	.....
Total inspections.....	35,978	15,164	4,917	13,496	2,251	150

REDUCTION OF INFANT MORTALITY.

Probably the most effective work of the Division of Child Hygiene during 1912 is shown by the marked reduction in the death rate among infants under one year of age. During 1912, deaths from all causes under one year numbered 14,289 as contrasted with 15,053 during 1911, the latter year showing a decided reduction as compared with 1910. In the past ten years, the infant death rate has decreased from 181 per 1,000 births in 1902 to 105 in 1912. The interesting feature of this decline is that it has been most marked in that class of cases which are grouped under the term "diarrhoeal diseases," and that for the past two years the greatest decrease has been noted during the summer months. For the first time in its history, the Department of Health during 1912 was able to conduct its campaign for the reduction of infant mortality throughout the entire year. The campaign has been largely educational and the results obtained have demonstrated the value of the methods employed.

Infants' Milk Stations.

Forty new stations were opened during the year which, added to the fifteen established in 1911, make a total of fifty-five municipal stations. Twenty-seven were placed in the Borough of Manhattan, twenty-four in the Borough of Brooklyn, two in the Borough of The Bronx and one each in the Boroughs of Queens and Richmond. Extensive studies were made of localities and of infant birth and death rates throughout the city and the stations were located in those districts in which the need was greatest. The sixteen infants' milk stations formerly conducted by the Brooklyn Children's Aid Society and the thirty-two conducted by the New York Milk Committee were discontinued in the fall of 1911, so that the additional stations maintained by the department provided a total of only two more

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than were formerly in operation. The number of infants' milk stations at present existing in the city, with the agencies controlling them, are as follows:

	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	Total.
Department of Health.....	27	2	24	1	1	55
New York Diet Kitchen Association.....	8	1	.....	.....	.....	9
Nathan Straus.....	8	.....	.....	.....	.....	8
Babies' Dairies.....	3	.....	.....	.....	.....	3
Nurses' Settlement.....	1	.....	.....	.....	.....	1
Independent.....	3	.....	.....	.....	.....	3
Total.....	50	3	24	1	1	79

Through a coöperative plan, under the organization of the Babies' Welfare Association, the City has been districted with reference to the milk stations. Uniform methods in the keeping of records and in reporting to a central office have been established, and the former duplication of work, overlapping of territory, and waste of effort have been eliminated. The stations of the department have been operated by a staff consisting of two supervising medical inspectors, one supervising nurse, 18 medical inspectors, 56 nurses, 55 nurses' assistants, and 18 cleaners. The methods of dispensing milk have been those instituted in 1911. The New York Dairy Demonstration Company, under an agreement with the Board of Health, has stationed an employee at each station to sell the milk to mothers. The milk is sold in quart bottles, its pasteurization and quality being guaranteed by the Board of Health, under a system of supervision and inspection rigidly maintained. The method has been followed of dispensing whole milk with an individual formula for its modification prescribed in each case by the medical inspector, with instructions as to methods of modification given by the nurse at the station and at the home. This method has been entirely satisfactory and few mothers are found too ignorant or negligent to follow the instructions. At the stations, and during home visits, the mothers are instructed in the methods of infant hygiene and care. In order to induce the mothers of young infants to visit the stations, the following methods of publicity have been followed:

1. The press of the city has published articles explaining the object and giving the locations of the stations, expatiating on the importance of prophylaxis in the care of infants and advising mothers to avail themselves of the advantages offered by the stations.
2. To the mothers of all children born since January 1, 1912, and living within a radius of four blocks of each station, a letter was sent signed by the Commissioner of Health stating the object of the stations and giving their locations.
3. Principals of public schools have requested their pupils to inform their mothers of the location and object of the stations.
4. The members of Little Mothers' Leagues have been instructed in the object of the stations and informed of their location.
5. Inspectors and nurses, when visiting homes, have advised all mothers of young infants to avail themselves of the stations' services.
6. Placards were hung in stores situated within a certain radius of the stations, giving the address of the nearest station and its object. These placards were also displayed on recreation piers and in school playgrounds and other places where women and children congregate.
7. Pocket cards, giving location of the stations, were distributed to the police force, station houses, settlements, social service agencies, hospitals, and various other organizations.
8. Weekly bulletins of information regarding the number of infant deaths were sent to all the newspapers, and were not only published by them but were made the subject of many special articles. The publicity obtained was widespread and productive of much good.

CHILD HYGIENE.

The importance of breast feeding has been kept constantly in mind and every effort has been made to impress mothers with its desirability. Where bottle feeding has been rendered necessary on account of poor quality or insufficiency of breast milk, every effort has been made to minimize its disadvantages. Mothers have been instructed in regard to proper diet, exercise, and general hygiene, and when necessary, appeal has been made to charitable organizations for material relief. A study was made of 3,592 consecutive cases in order to ascertain the causes determining the choice of method of feeding. The results obtained are sufficiently interesting to be noted and are shown in the following table:

	Number Investigated.	Breast-Fed.	Bottle-Fed.	Breast and Bottle-Fed.
All nationalities.....	3,592	49%	32%	19%
Russian Jews.....	1,506	53%	24%	23%
American.....	330	51%	34%	15%
Italian.....	1,532	48%	32%	20%
Bohemian.....	224	22%	73%	5%

Further investigation of the Italian cases shows the difference in the percentage of breast feeding among those mothers who were employed in work other than that of their household and among those who were not.

	Number Investigated.	Breast-Fed.	Bottle-Fed.	Breast and Bottle-Fed.
Working.....	642	44%	41%	15%
Not Working.....	890	51%	26%	23%

The case of the Bohemians deserves special attention. These mothers were nearly all employed, many for the entire day, in cigar factories and could not nurse their children at all, while others, working at home, were so poorly nourished and anæmic that nursing was impossible. The poor physical condition of these mothers is doubtless largely due to the character of the material on which they worked.

During the year 37,935 women and their babies were registered at the stations. Thirty-one thousand nine hundred and thirty-nine of these women were in attendance for only short periods of time on account of their continual change of residence. In a certain proportion of cases attendance ceased on account of failure on the part of the women to comply with the rules, some were discharged because their infants had passed the age at which nursing is essential, and some ceased attending because they were fully instructed in the proper care of the infant and preferred to buy the milk nearer their homes. A decrease in attendance is characteristic of the winter months. The mothers are generally fully aware of the need of additional care of their babies during the summer, but in winter it is difficult to convince them that special attention is necessary, and there is a well-rooted aversion to bringing infants to the stations in cold weather. One of the most essential and, at the same time, most difficult features of our educational work consists in combating this theory. In order to determine the number of deaths occurring in babies who had been in attendance at the stations, home visits are made for two weeks after attendance has ceased. Illness resulting in death, or death occurring during this period, is charged against the station. All babies referred to hospitals or to other agencies for treatment are kept on the records and every death noted. Every effort is made by investigation of death records and by

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coöperation with institutions to ascertain all deaths that may legitimately be charged against the station. In this connection it is important to note that the proportion of sick babies brought to these stations is exceedingly high, about 60% of the infants exhibiting some ailment at the time of their first registration. The true value of the stations consists in their prophylactic efforts, but it is not yet possible to eliminate the prevalent idea that the stations are dispensaries, and in many instances mothers do not bring their babies to the stations so long as they are well. During the year 169 deaths occurred among babies registered at the stations, 83 from diarrhoeal diseases and 86 from other causes, amounting in all to .5 of 1% of the total registration, or 1.8% based on the number of babies registered at the end of the year, and is indicative of the great value of infants' milk stations in the reduction of infant mortality.

District Visiting.

The inspectors and nurses assigned to school duty during the school year were employed during the summer months in caring for babies not under the jurisdiction of the stations. This work is also carried on in part during the school year, when the nurses at every opportunity afforded them by their home visits instruct mothers in the principles of infant hygiene and care. Also throughout the year medical inspectors respond to emergency calls in the case of sick babies where the families are unable to employ a private physician. Following the plan instituted with such marked success in 1911, the efforts of the staff have been especially directed to those districts showing the highest rate of infant mortality. Commencing July 1st a definite district was assigned to each school nurse not engaged in other duties and she was required to locate one hundred and fifty babies under one year of age and to visit each at least once in ten days. Those who were sick or delicate were visited as often as necessary, and mothers were instructed in detail in the value of breast feeding and the hygiene of infancy. Each day the nurses and inspectors conferred in regard to sick or delicate babies, the inspectors visiting those cases in which the parents were unable to pay for medical attendance. When possible, sick babies were referred to hospitals or dispensaries for further treatment, the full force of the department's campaign being thus exerted in keeping the baby well. By coöperation with the infants' milk stations duplication of effort was eliminated. Systematic home visiting, for the purpose of instructing mothers in infant hygiene, has proved to be most effective, and the limiting of this preventive work to homes in those districts of the city where the need was the greatest has caused it to develop a practical value much greater than in former years when the force was distributed over the entire city, allowing but one or at most two calls on each mother. The infant mortality figures are much lower and the number of requests for medical attention is far less than under the old plan. From June 15th to September 15th, 18,605 babies were kept under constant supervision, 113,540 visits to mothers were made by the nurses, and 2,029 visits to sick or delicate babies were made by the medical inspectors. Two hundred and seven deaths occurred among babies under care, 86 from diarrhoeal diseases and 121 from other causes, a mortality of about 1.1%.

COÖPERATION.

Forty-two conferences for mothers, with a total attendance of 2,293, were held at the offices of the charity organizations and other agencies. Seven medical inspectors and three nurses were assigned to regular duty at the infants' milk stations of the New York Diet Kitchen Association during the summer months, and the assignment was continued on Saturdays during the remainder of the year. Inspectors examined all children taking advantage of the daily boat outings of St. John's Guild. Two nurses were assigned to the recreation playground on the roof of the Educational Alliance building. Social service agencies of the city, including the Charity Organization Society, the Association for Improving the Condition of the Poor, the United Hebrew Charities, the Brooklyn Bureau of

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Charities, and the Children's Aid Society of Brooklyn, have supplied free milk for indigent mothers and babies, in addition to furnishing many other forms of material relief. Through the coöperation of the *Herald* Free Ice Fund and the president of one of the large ice companies, 317,700 pounds of ice were distributed to indigent families in order that milk intended for babies might be kept in proper condition. Outing societies, settlements, and many other organizations interested in infant welfare work have coöperated with the department in a manner most helpful. This coöperation has been placed on a most satisfactory and systematic basis by the formation of the Babies' Welfare Association, which is the outgrowth of the Association of Infants' Milk Stations instituted in 1911. The association is a federation of all the agencies interested in infant welfare and was inaugurated at the suggestion of the Department of Health in order that the work might be more comprehensibly and systematically conducted. The first year's work of this federation has proved conclusively that coöperation in efforts of this nature is essential and that its beneficial results are immediately apparent.

Infant Mortality—District Visiting.

	New York City.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.
Number of babies under supervision.....	22,417	7,932	1,779	9,437	1,379	1,890
Number of deaths.....	207	52	36	70	46	3
Of which						
Due to diarrhoea.....	86	28	22	19	16	1
Due to other causes...	121	24	14	51	30	2
Sick babies treated at home.....	1,872	189	600	86	969	28
Sick babies treated at clinics.....	9	....	....	....	9	....
Number of visits to babies by nurse.....	113,540	41,525	10,468	53,920	5,776	1,851
Number of visits to babies by doctor.....	2,029	224	581	158	1,043	23
No. of still-births investigated.....	424	224	67	84	46	3
Cases of ophthalmia neonatorum reported....	116	98	8	10	....	....
By physicians.....	9	7	1	1	....	....
By midwives.....	44	32	4	8	....	....
By institutions.....	60	56	3	....	....	....
By nurses.....	3	3	....	....	....	....
Deaths from puerperal septicæmia investigated	203	83	42	74	4	
Attended at birth by physician.....	140	43	35	61	1	

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Infant

Deaths and Death-Rates per

ALL CAUSES.												
	New York City.		Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1902....	15,526	181	8,594	164	887	170	5,059	215	701	219	285	200
1903....	14,413	152	8,181	146	741	122	4,601	169	634	167	256	167
1904....	16,125	162	9,207	156	920	152	5,015	174	698	180	285	179
1905....	16,522	159	9,401	156	917	138	5,150	166	760	175	294	174
1906....	17,189	153	9,464	159	1,029	141	5,453	158	903	179	340	182
1907....	17,437	144	9,602	146	1,044	123	5,503	142	936	161	352	176
1908....	16,231	128	9,048	135	1,026	107	5,012	120	800	125	345	168
1909....	15,976	120	8,914	140	991	104	4,923	119	851	135	297	149
1910....	16,215	125	8,954	135	1,051	96	5,059	118	869	122	282	142
1911....	15,053	112	8,223	124	1,095	88	4,628	101	830	110	277	121
1912....	14,289	105	7,675	116	1,121	83	4,453	98	784	98	256	113

Infant

Deaths of Children under One

	Diarrhoeal.						Respiratory.						Congenital Debility.					
	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
1902....	4,090	2,121	221	1,409	215	124	3,749	2,168	189	1,224	128	40	4,531	2,479	242	1,494	236	80
1903....	3,769	2,071	179	1,238	170	105	3,202	1,890	133	1,028	120	31	4,740	2,672	247	1,530	201	90
1904....	4,726	2,506	246	1,622	243	109	3,466	2,059	165	1,076	128	38	5,019	2,941	287	1,447	230	114
1905....	4,945	2,611	261	1,656	290	127	3,254	1,935	147	997	145	30	5,316	3,086	311	1,619	201	99
1906....	4,943	2,481	280	1,693	344	145	3,742	2,114	197	1,218	181	32	5,465	3,162	317	1,614	144	128
1907....	5,364	2,667	316	1,923	323	135	3,627	2,008	170	1,211	189	49	5,586	3,254	370	1,510	337	115
1908....	5,118	2,630	288	1,774	291	135	3,155	1,755	166	1,051	141	42	5,593	3,283	383	1,503	290	134
1909....	4,252	2,119	235	1,522	290	88	3,705	2,060	216	1,197	182	50	4,950	2,818	350	1,374	281	121
1910....	4,807	2,450	276	1,698	292	91	3,297	1,725	214	1,155	159	44	5,529	3,258	379	1,454	320	118
1911....	3,853	1,842	260	1,412	247	92	3,277	1,704	179	1,139	152	43	5,268	2,996	454	1,403	331	84
1912....	3,392	1,571	230	1,267	237	87	3,243	1,714	204	1,112	180	33	5,485	3,162	509	1,437	270	107

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Mortality

One Thousand Children Born.

DIARRHEAL DISEASES.											
New York City.		Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.	
Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
4,090	47.8	2,121	40.6	221	42.3	1,409	59.9	215	67.2	124	66.8
3,760	39.8	2,071	37.0	179	29.6	1,238	45.4	176	46.3	105	68.6
4,726	47.5	2,506	42.3	246	40.8	1,622	56.2	243	62.8	109	68.3
4,945	47.6	2,611	43.4	261	39.2	1,656	53.5	290	66.6	127	75.1
4,943	44.2	2,481	39.4	280	38.3	1,693	49.0	344	68.1	145	77.4
5,364	44.4	2,667	40.6	316	37.2	1,923	49.8	323	55.4	135	67.3
5,118	40.4	2,630	39.3	288	39.0	1,774	42.3	291	45.3	135	65.7
4,254	34.6	2,199	33.3	235	24.5	1,522	36.7	200	45.9	88	44.1
4,807	37.2	2,450	36.9	276	25.2	1,698	39.8	292	41.0	91	45.7
3,853	28.6	1,842	27.7	260	20.9	1,412	31.1	247	32.6	92	40.3
3,392	25.0	1,571	23.7	230	16.9	1,267	27.9	237	29.6	87	38.2

Mortality

Year of Age—By Boroughs.

Contagious Diseases.						All Other Causes.						Total Deaths.					
New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
792	413	107	242	17	13	2,364	1,413	128	690	105	28	15,526	8,594	887	5,059	701	285
532	302	51	151	21	7	2,170	1,246	131	654	116	23	14,413	8,181	741	4,601	634	256
537	313	57	155	7	5	2,377	1,388	165	715	90	19	16,125	9,207	920	5,015	698	285
586	290	73	190	23	10	2,421	1,479	125	688	101	28	16,522	9,401	917	5,150	760	294
750	335	89	295	21	10	2,289	1,372	146	633	113	25	17,189	9,464	1,029	5,453	903	340
674	357	59	231	18	9	2,186	1,316	129	628	69	44	17,437	9,602	1,044	5,593	936	352
704	395	105	182	17	5	1,661	985	84	502	61	29	16,231	9,048	1,026	5,012	800	345
725	415	40	244	21	5	2,344	1,502	144	586	77	33	15,976	8,914	991	4,923	831	297
583	301	44	204	28	6	1,999	1,220	138	548	70	23	16,215	8,954	1,051	5,059	869	282
566	326	78	119	19	24	2,089	1,295	124	555	81	34	15,053	8,223	1,095	4,628	830	277
517	259	58	164	30	6	1,652	969	120	473	67	33	14,289	7,675	1,121	4,453	784	256

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Infant Mortality—Infants' Milk Stations.

	New York City.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.
Number of stations.....	55	27	2	24	1	1
Number of babies regis- tered during year.....	37,935	20,623	2,408	14,284	418	202
Number of babies on reg- ister at end of year....	9,294	4,225	635	4,265	96	73
Number of quarts of milk dispensed.....	1,614,513	897,279	52,625	648,137	8,999	7,473
Number of deaths.....	169	76	1	86	3	3
Of which						
Due to diarrhoea.....	83	15	1	62	2	3
Due to other causes...	86	61	....	24	1	....
Visits paid to stations by mothers and babies....	307,014	155,500	15,771	131,629	2,885	1,229
Number of treatments of sick babies at stations..	62,502	35,981	6,537	18,703	1,051	230
Number of home visits by nurses.....	87,662	42,923	3,858	38,502	1,839	540
Number of home visits by physicians.....	757	283	148	272	10	44

Little Mothers' Leagues.

One hundred and ninety-three of these leagues were formed during the spring of 1912, which was the third year of this work, the value of which has been each year increasingly evident. During 1912 a regular course of one lesson each week for twelve weeks was instituted, the same lesson being given in each league each week. The increase in the number of infants' milk stations made it possible to hold many of the meetings in the stations, obviating to a great extent the difficulty experienced in former years of securing proper meeting places, and also rendering available a complete equipment for teaching. Seventeen thousand seven hundred and eighty-four members were enrolled, and 1,164 meetings were held, with an attendance of 85,355. The enthusiasm of the members has been marked, and the leagues have been of definite aid to the department in referring mothers to the milk stations and securing better care for the babies under their charge. It is to be hoped that the Board of Education will institute a course in infant hygiene for girls in the public schools. It can hardly be doubted that such action would have a definite effect in lessening infant mortality.

Little Mothers' Leagues.

	New York City.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.
Number of Little Mothers' Leagues formed.	193	77	38	41	26	11
Number of members enrolled.....	17,784	8,352	2,721	4,210	2,008	493
Number of meetings held.....	1,164	354	214	382	182	32
Attendance at meetings.....	85,355	26,444	13,318	33,728	10,548	1,317

SUPERVISION OF DAY NURSERIES AND INSTITUTIONS FOR DEPENDENT CHILDREN.

The day nurseries of this city continue to be maintained under satisfactory conditions, few violations of the rules and regulations of the department being found. During the year 36 applications for permits to conduct day nurseries were granted and four were denied.

CHILD HYGIENE.

There are now 87 permits in force. Each nursery is regularly inspected once a month, and two inspectors are assigned especially to this work. Institutions for dependent children have also been inspected once a month in accordance with the State law. While the authorities of these institutions show readiness and intent to comply with the law governing their management, it is evident that the physical condition of the children would be benefited by a more complete system of control of each child. Such a system should be modeled on that of the medical inspection and examination of school children, with the necessary modifications to make it of the greatest value in conserving the health of children committed to institutions.

Supervision of Institutions and Day Nurseries.

Institutions.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Number of institutions.....	62	17	12	26	4	3
Number of inspections.....	787	216	153	332	49	37
Day Nurseries.						
Applications brought forward.....						
New applications received.....	42	26	1	15		
Total.....	42	26	1	15		
Applications granted.....	36	21		15		
Applications denied.....	4	3	1			
Applications pending.....	2	2				
Total.....	42	26	1	15		
Permits expired.....	36	10		26		
Permits revoked.....	8	7		1		
Total number in force.....	87	66	1	19	1	
Number first inspections.....	57	53	1	3		
Number reinspections.....	983	695	16	267	5	
Number special investigations.....	2	2				
Total inspections.....	1,042	750	17	270	5	

MEDICAL INSPECTION AND EXAMINATION OF SCHOOL CHILDREN.

The beginning of the year marked an important change in the method of conducting the work of school inspection. Preliminary studies had been made during the spring of 1911 in coöperation with a special committee of the Board of Estimate and Apportionment, in order to determine if a more economical method than was then in force could be devised without sacrificing efficiency. The practice then in vogue of having both a medical inspector and a nurse visit each school daily doubled the time consumed in transit between the schools visited, and it was the purpose of this study to ascertain whether this waste could be eliminated. The success of any plan having for its object the eradication of infectious diseases from schools depends wholly upon the exclusion of infected children before and not after symptoms of contagious disease have developed. When a contagious disease has sufficiently developed to make diagnosis possible, it is evident that the harm has been already done in so far as the danger of contagion is concerned, and it was believed that it would be far better to exclude from school all sick or ailing children, with the possibility that some of the exclusions might later be found to be unnecessary, than to risk allowing them to remain in school until the true nature of their illness manifested itself. These studies showed that if a nurse alone visited each school daily she might refer to the principal for exclusion all children found with symptoms of illness and attend to her other duties of health instruction and attention to minor ailments as well. This plan permitted of a reduction in the number of medical inspectors employed and an increase in the number of nurses, the inspectors devoting their entire time to the physical examination of the children and exercising a controlling oversight over the work of the nurses, and, while in

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many ways it has been successful, modifications will probably be necessary in the future in order to insure the best results. The possibility of overlooking cases of contagious disease has been guarded against as follows: The school inspectors and nurses are divided into groups and each group is under the charge of a supervising inspector, who receives daily on separate index cards the name and address of all cases of contagious disease occurring among school children in his district with data as to the school attended and date of last attendance at school previous to illness. He is required to keep this information in such order that he may know at once when more than one case of contagious disease has occurred in any classroom. He then visits the classroom, examines each child, instructs the teacher as to the necessity of noting symptoms of illness, and makes repeated inspections until all danger of further infection has passed. When two or more cases of diphtheria occur in one classroom, trial cultures are taken from the throats of all the children and immunization is offered. Children excluded from school by the principal at the suggestion of the nurse are visited at their homes by a medical inspector for the purpose of diagnosis, and when contagious disease is found to exist exclusion is continued. This method has proved satisfactory in controlling contagious diseases in the schools. It is open to some criticism. In the first place, it increases the duties of the nurses to such an extent that the time formerly devoted to visits in order to induce parents to seek treatment for physical defects in the children has been greatly curtailed, and secondly, the principals and teachers generally are not satisfied with a plan which causes the school doctor to visit the schools at infrequent intervals. Both of these criticisms are worthy of consideration and should be met by a modification of the present system which, however, would depend upon readjustment of the budget appropriation. Each nurse now has about 4,000 children under her supervision, and each inspector about 9,000. A nurse cannot properly care for more than 3,000 children and it is really questionable whether the best results can be obtained if her quota exceed 2,000. The present number of medical inspectors permits of the physical examination of approximately 280,000 children each year. Every child entering school for the first time is examined, all children are examined before graduation, and the remainder are examined grade by grade in regular order. All cases with marked physical defects, or those which apparently need immediate attention, are examined as soon as noted. Difficulty is often experienced in securing treatment for children. Nurses exhaust every effort to induce parents to take their children to physicians or to dispensaries and hundreds of instances are on record where parents have consented to have their children treated only after a year or more of persistent work on the part of the nurse. Ten, or even twenty, home visits paid by the nurse to a single case are recorded in a large number of instances.

Contagious Diseases.

During the year, 4,949 children were excluded from school on account of contagious diseases, and 3,929 unreported cases of contagious disease were found in the course of home visits made by the inspectors and nurses. With the present attention to the possibility of infection while the child is in attendance at school, the ratio between the number of cases found in the school and the unreported cases found in the homes, is of deep significance. When it is realized that one unreported and therefore unisolated case in a tenement house is a focus of infection for all the families in the house and more remotely for the neighborhood, it is evident that the probability of a child contracting a contagious disease is now greater in its home than in the school. While 106 cases of scarlet fever were excluded from school, 185 unreported cases were found ill at their homes. The contrast is even more striking in the case of measles. Seven hundred and forty-two children were excluded from school because of early evidence of this disease, while 1,570 unreported and uncared for cases were found in their homes.

The cases of contagious eye and skin disease occurring in school children continue to show a gratifying decrease. This is particularly true of ringworm, scabies and impetigo contagiosa. There are 519 public schools under medical inspection. On an average, eight

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cases of ringworm were found in each school, five cases of scabies and twenty cases of impetigo. Pediculosis is still unduly prevalent, constant reinfection taking place at home from other members of the family. On an average, eight inspections of each school child were made during the year.

School Medical Inspection—Contagious Diseases Found in School and Excluded—1912.

CITY OF NEW YORK.

General Contagious Diseases.	Cases found in school and excluded.		Unreported cases found in homes.	
Diphtheria.....	*146	1,111	*20	87
Scarlet fever.....	*106	168	*185	211
Measles.....	*742	1,097	*1,570	1,784
Chicken pox.....	*1,743	2,112	*805	866
Pertussis.....	*291	372	*445	466
Mumps.....	*1,892	2,648	*902	1,028
Poliomyelitis.....			*1	1
Tuberculosis.....	*26	27	*1	1
Erysipelas.....	*1	2		
Gonorrhœa.....	*2	2		
Total.....	*4,949	7,539	*3,929	4,444

* True cases.

Contagious Eye and Skin Diseases.	Cases found in school.	Excluded from school.
Pediculosis.....	184,907	3,368
Trachoma.....	14,497	92
Conjunctivitis.....	33,875	805
Ringworm.....	4,108	79
Scabies.....	2,593	202
Impetigo.....	10,332	151
Favus.....	349	15
Molluscum contagiosum.....	122	4
Miscellaneous.....	3,431	....
Total.....	254,214	4,716

School Medical Inspection—Vaccinations.

New York City.....	69,842
Manhattan.....	16,556
The Bronx.....	3,940
Brooklyn.....	30,746
Queens.....	17,939
Richmond.....	661

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Physical Defects.

The number of cases of physical defects discovered is shown in the subjoined tables. It was impossible to obtain treatment for but a very small number of those presenting defective teeth on account of the lack of facilities for free dental treatment. These facilities will be considerably increased during the ensuing year through the free dental clinics to be established by the department. A definite decrease has been noted in the occurrence of all physical defects and the total decrease in the past four years since systematic efforts have been made to induce the parents of these children to place them under treatment is evidence of the efficacy of this work.

School Medical Inspection—Visits Made by Inspectors and Nurses.

	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Visits to Dispensaries:						
By inspectors.....	7	7				
By nurses.....	2,431	1,720	196	237	169	109
Visits to Cases of Contagious Eye and Skin Diseases:						
By inspectors.....	16,825	7,890	878	7,409	599	49
By nurses.....	17,048	5,197	917	7,494	88	3,352
Visits to Physically Defective Children:						
By inspectors.....	37,108	17,808	3,386	14,882	1,012	20
By nurses.....	164,304	69,348	23,742	58,453	10,176	2,585
Visits to Cases not Found:						
By inspectors.....	11,720	6,595	805	4,214	98	8
By nurses.....	32,771	14,822	5,354	12,487	102	6
Total Number of Visits:						
By inspectors.....	65,660	32,300	5,069	26,505	1,709	77
By nurses.....	216,554	91,087	39,209	78,671	10,535	6,052

School Medical Inspection—Physical Examination of School Children—Non-Contagious Physical Defects Found.

Year, 1912.	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Number physical examinations made.....	287,469	127,502	33,297	104,277	18,339	4,054
Number found needing treatment.....	206,720	96,658	23,546	73,951	10,328	2,237
Number found with other defects than of teeth only.....	87,361	40,517	10,169	30,548	5,285	842
Number found with defects of teeth as only defects.....	119,359	56,141	13,377	43,403	5,043	1,395
Defects found:						
Defective vision.....	21,078	11,096	2,182	6,521	1,093	186
Defective hearing.....	1,206	395	215	389	192	15
Defective nasal breathing.....	21,031	10,941	2,612	6,117	2,102	159
Hypertrophied tonsils.....	30,021	14,094	2,722	9,945	2,724	536
Pulmonary disease.....	335	155	101	67	11	1
Cardiac disease.....	1,597	717	248	563	61	8
Nervous disease.....	915	594	160	118	35	8
Malnutrition.....	8,303	4,354	853	2,791	248	57
Orthopedic defects.....	721	271	109	266	47	28
Defective teeth.....	142,168	72,577	14,864	48,729	4,543	1,455

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School Medical Inspection—Treatment Received for Physical Defects.

	New York City.		Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.	
	Improved or Cured.	Unimproved.	Improved or Cured.	Unimproved.	Improved or Cured.	Unimproved.	Improved or Cured.	Unimproved.	Improved or Cured.	Unimproved.	Improved or Cured.	Unimproved.
Defective vision.....	12,731	1,679	6,509	927	1,926	410	3,766	250	471	56	59	36
Defective hearing.....	608	263	216	113	140	106	228	41	109	3	5	1
Defective nasal breathing.....	13,066	2,018	7,039	1,431	2,367	378	3,534	198	992	10	34	1
Hypertrophied tonsils.....	14,821	3,435	5,551	2,459	2,367	316	5,592	649	1,223	20	178	.....
Pulmonary disease.....	307	31	139	11	97	12	62	7	8	1	1	.....
Cardiac disease.....	1,049	305	463	146	196	82	353	64	23	12	5	1
Nervous disease.....	622	84	280	64	196	.....	138	13	7	7	1	.....
Malnutrition.....	5,424	886	3,047	543	868	29	1,431	293	58	21	20	.....
Orthopedic defects.....	514	225	200	66	103	26	178	117	27	10	6	6
	Filling.	Extraction.	Filling.	Extraction.	Filling.	Extraction.	Filling.	Extraction.	Filling.	Extraction.	Filling.	Extraction.
Defective teeth.....	8,572	5,326	4,155	2,752	1,782	777	2,307	1,728	297	64	31	5

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School Medical Inspection—Special Physical Examinations of School Children.

	New York City.	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
For athletic contests.....	22,811	9,387	2,324	5,136	4,907	1,057
For employment certificates.....	40,501	20,835	2,708	14,400	2,526	32
Re-examinations.....	58,312	30,228	8,661	16,076	3,093	254

Clinics for School Children.

The budget appropriation for 1912 rendered possible the establishment of six dispensaries for the free treatment of school children. In these dispensaries no child is treated whose parents are able to pay for the services of a physician. The clinics have been placed in those locations lacking dispensary facilities and services are maintained for the estimation of refraction in cases presenting defective vision, for the treatment of contagious eye diseases, and for medical and operative treatment of the nose and throat. They were opened as early in the year as proper buildings could be rented and equipped, but owing to the restrictions of the building and fire laws, provision for hospital service could not be instituted until late in the year. In all cases operated upon, whether for trachoma or for the removal of adenoids and hypertrophied tonsils, the child is kept in the hospital during the

Medical School Inspection—Clinics for School Children.

	New York City.	Manhattan.	The Bronx.	Brooklyn.
Eye Clinic—Refraction Service:				
Number registered.....	4,845	1,970	668	2,207
Number discharged.....	2,829	977	426	1,426
Normal.....	506	246	31	229
Cured.....	1,908	573	321	1,014
Dropped.....	415	158	74	183
Number refractions performed.....	8,780	3,394	1,568	3,818
Number treatments.....	4,907	1,521	596	2,890
Contagious Eye Disease Service:				
Number registered.....	9,750	6,380	466	2,904
Number discharged.....	5,119	4,085	135	899
Normal.....	2,078	1,838	.....	240
Cured.....	1,542	872	110	560
Dropped.....	1,499	1,375	25	99
Number operations performed.....	255	255	.....	.....
Number treatments.....	63,519	27,808	2,490	33,221
Nose and Throat Service:				
Number registered.....	2,455	809	442	1,204
Number discharged.....	1,084	452	293	339
Normal.....	341	4	69	268
Cured.....	689	446	187	56
Dropped.....	54	2	37	15
Number treatments.....	10,344	2,714	1,274	6,356
Number operations performed.....	571	441	115	15
Number referred for operation.....	680	33	55	592
Home visits made by nurses.....	1,671	450	283	938

CHILD HYGIENE.

night preceding and following the operation, and all operations are performed under general anesthesia. Six clinics have been established, two in the Borough of Manhattan, three in the Borough of Brooklyn, and one in the Borough of The Bronx. During the year operations were performed at only one clinic. Each dispensary is in a separate building, equipped with clinical facilities and hospital accommodations for operative cases. For the work performed at these institutions the subjoined tables should be consulted. The need of these clinics has been thoroughly demonstrated, and it is not possible for them to care for more than a fraction of the children referred by the school inspectors. Hospital facilities will be provided in each clinic early in 1913 and this will furnish the more extensive opportunities for operations upon the tonsils and adenoids which are so greatly needed.

ISSUING OF EMPLOYMENT CERTIFICATES.

During the early part of 1912, each child applying for an employment certificate was examined at the school attended, and the application was denied if the physical health of the child did not reach the required standard. On October 1st, an amendment to the Child Labor Law became effective and required that the results of these physical examinations should be recorded on a special form provided by the State Department of Labor. In order that the examinations might be carried on more systematically, a special corps of physicians and nurses was assigned and an examination room was provided in each borough office. The physical condition of a child upon leaving school and beginning to work exercises an important bearing upon his future welfare. When a physical defect is discovered, or ill health not immediately amenable to treatment is present, the application for an employment certificate is denied. When it is probable that proper medical attention will result in recovery, the case is referred to a school nurse, and the application is withheld pending a reexamination of the child's physical condition.

The law requires that a child must have attended school for a definite period previous to his fourteenth birthday or to the date of his application for an employment certificate. Unfamiliarity with this law causes the issuance by teachers of unacceptable records of attendance, but the number of applications which are denied for this reason is steadily decreasing as the law's requirements are becoming better known.

Issuance of Employment Certificates—Mercantile Statistics.

	New York City.	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.
Applications brought forward.....	551	351	7	178	14	1
New applications received.....	42,703	20,651	4,101	14,309	3,158	484
Total.....	43,254	21,002	4,108	14,487	3,172	485
Employment Certificates—						
Granted.....	41,548	20,290	4,018	13,627	3,128	485
Refused.....	1,181	378	77	688	38	.....
Pending.....	525	334	13	172	6	.....
Total.....	43,254	21,002	4,108	14,487	3,172	485
Refused for—						
Insufficient tuition.....	213	114	32	57	10	.....
Insufficient education.....	239	36	11	183	9	.....
Insufficient evidence of age.....	113	10	.....	102	1	.....
Under age.....	101	22	13	50	16	.....
Physical incapacity.....	515	196	21	296	2	.....
Duplicate certificates issued.....	1,359	537	180	584	47	11
Certificates—						
In force, Dec. 31, 1911.....	53,481	26,710	4,842	17,777	3,616	536
Granted during year.....	41,548	20,290	4,018	13,627	3,128	485
Expired during year.....	35,889	18,402	3,578	10,606	2,668	545
In force, Dec. 31, 1912.....	59,140	28,598	5,282	20,708	4,076	476

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

The number of applications denied on account of insufficient education is slowly decreasing. It may be debatable whether certain children who have not succeeded in acquiring even the rudiments of an education at fourteen years of age should be required to remain in school, still their dismissal from school attendance is not in accord with the law. The physiological activity of children of this age demands expression and most school curricula seem to provide no outlet for their physical unrest. Vocational training must eventually fill this need and its provision will undoubtedly lessen the number of applicants for employment certificates not only among those who are unable to progress further in the subjects taught in the schools, but also among those who, having passed the grade required by law, leave school and go to work, not from economic necessity but because the school course no longer provides for their physiological need of physical expression. The number of applications denied on account of insufficient education during 1912 showed a slight decrease as compared with 1911.

The cases in which applications were denied on account of physical incapacity were, so far as possible, kept under extended observation and referred to physicians or dispensaries for proper treatment and care.

DIVISION OF HOSPITALS.

The highest census of the year was reached during April, when there were 1,214 cases in the hospitals of the Department of Health, distributed as follows:

Willard Parker Hospital.....	476
Kingston Avenue Hospital.....	351
Riverside Hospital.....	387

The highest census in any one hospital occurred during May, when there were 501 cases at the Willard Parker Hospital. During 1912, the death rate, speaking generally, has been reduced about one per cent. in scarlet fever and measles, and about three per cent. in diphtheria. During the year, two new cement tuberculosis pavilions, with a capacity of 160 beds, were erected at Riverside Hospital on North Brother Island. These buildings will be ready for occupancy about March 1, 1913. During the year, cement pavilion No. 4 was opened to patients, thereby adding 80 beds to the capacity of the hospital. A heating plant, entirely new, consisting of a boiler house, with four new boilers, with a capacity of 360 additional horse-power, and a pipe gallery containing the high pressure steam, hot water and return lines to every building on the island, have recently been constructed. In February, the two Croton water mains coming from the mainland were frozen for seven weeks, and during this period the only water obtained was conveyed to the island by the department's boats. This experience showed the necessity of immediately replacing the old and worn-out water mains with new. The Department of Water Supply, Gas and Electricity furnished the pipe and pipe fitters, and the Commissioner of Corrections supplied laborers from among the convicts from the Riker's Island penitentiary. A complete water system, with eight-inch mains, was installed, and it should be noted that the installation, which, under contract, would have cost many thousands of dollars, was accomplished with a minimum cost to the city.

The steamboats of the department have been overhauled and repaired. A new measles pavilion, with a capacity of 320 beds, is in process of erection at the Willard Parker Hospital. At Willard Parker Hospital there is also in course of construction an underground pipe gallery which will contain the high pressure steam, hot water and return lines connecting the boiler house with all the buildings of the plant. In September, the interior of the Drug Laboratory was destroyed by fire, but this building has been repaired, entirely by departmental labor, and is now in as good condition as it was before the fire.

At the Kingston Avenue Hospital, a new isolation building, with a capacity of 80 beds, is now in course of construction, and a new sewer plant, by means of which the sewage, which up to this time has been collected in a settling tank and pumped therefrom to the Clarkson street sewer, will be conveyed to a septic tank on the department's property at the northeast corner of Albany avenue and Hawthorne street whence the effluent will be pumped to the sewer on Clarkson street.

Ambulance Station Work.

	Willard Parker Hospital.	Kingston Avenue Hospital.	Riverside Hospital.
Number of ambulance calls.....	3,027	1,971	1,686
Number of miles traversed by ambulances....	12,482	13,901	8,614
Number of coupé calls.....	691	506	192
Number of miles traversed by coupés.....	1,849	1,290	903
Number of trips for cats and dogs.....	115	284	282
Number of miles traversed.....	511	20,612	1,916½

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Steamboat Work.

	Steamer "Riverside."	Steamer "Franklin Edson."	Launch "Duchess."
Number of days boat was in commission.....	140	183	157
Number of trips made.....	237	2,600	1,547
Number of passengers carried.....	478	70,324	1,622
Average number of miles traveled.....	2,849	5,226	1,160
Tons of coal burned.....	479	849	....
Average number of trips.....	237	2,600	1,547
Average number of miles.....	2,849	5,226	1,160
Average number of pieces of freight.....	12,391	16,944	....
Gallons of gasoline consumed.....	....	....	709

Yearly Report, Cost of Stores.

	Willard Parker Hospital, Supplies, etc.	Kingston Avenue Hospital, Supplies, etc.	Riverside Hospital, Supplies, etc.
Superintendence.....	\$141.77	\$62.16	\$32.62
Storehouse.....	142.07	93.99	201.25
Wards.....	6,402.02	4,061.85	9,852.57
Pharmacy.....	6.93	60.08	65.19
Morgue.....	189.26	80.74	418.16
Doctors' and nurses' kitchen.....	19,317.43	12,906.80	13,883.76
Help's kitchen.....	17,661.10	9,404.09	19,565.19
Patients' kitchen.....	16,790.34	11,314.62	45,843.06
Housekeeping.....	4,038.54	3,813.78	4,024.37
Laundry.....	.....	2,542.53	3,382.11
Department stable, East 134th Street.....	.....	.....	2,372.14
Stable.....	2,697.82	3,780.35	893.75
General house and property.....	22,134.28	28,274.62	27,382.68
Steamboats and launches.....	.....	.....	1,928.19
Laboratory.....	.....	56.07	.....
Miscellaneous.....	1,081.24	2,027.99	237.30

HOSPITALS.

Reception Hospital.—1912.

	Patients.				Diseases.				Patients.		
	Admitted.		Total Patients Treated.	Transferred from other Contagious Diseases.	Total Diseases Treated.	Transferred to other Contagious Diseases.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.
	New.	Transferred.							Hospital.	Number.	
Diphtheria.....	2	78	80	112	112	.....	60	24	Scarlet fever.....	2	3
Scarlet fever.....	2	25	27	32	32	.....	7	11	Riverside.....	3	11
Measles.....	2	723	725	733	733	.....	26	37	Willard Parker.....	13	1
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	Scarlet fever.....	55	12
Varicella.....	.....	.....	.....	.....	.....	.....	.....	.....	Kingston Avenue.....	602	.....
Leprosy.....	.....	.....	.....	.....	.....	.....	.....	.....	Riverside.....	1	.....
German measles.....	.....	.....	.....	.....	.....	.....	.....	.....	Scarlet fever.....	.....	.....
Typhus fever.....	.....	.....	.....	.....	.....	.....	.....	.....	Kingston Avenue.....	.....	.....
Tuberculosis.....	52	.....	52	85	85	.....	2	.....	Riverside.....	83	.....
Cerebro-spinal meningitis.....	1	.....	1	1	1	.....	.....	.....	.....	.....	.....
Diphtheria and scarlet fever.....	1	4	5	5	5	.....	2	1	Kingston Avenue.....	1	.....
Diphtheria and measles.....	1	42	43	52	52	.....	5	16	Willard Parker.....	1	.....
Diphtheria and varicella.....	.....	.....	.....	.....	.....	.....	2	.....	Kingston Avenue.....	20	.....
Diphtheria and pertussis.....	.....	.....	.....	.....	.....	.....	2	.....	Riverside.....	2	.....
Scarlet fever and measles.....	.....	.....	.....	.....	.....	.....	3	.....	Scarlet fever.....	.....	.....
Scarlet fever and varicella.....	.....	.....	.....	.....	.....	.....	.....	.....	Scarlet fever.....	3	1
Scarlet fever and pertussis.....	.....	.....	.....	.....	.....	.....	.....	.....	Scarlet fever.....	4	.....
Measles and pertussis.....	1	8	9	9	9	.....	4	3	Scarlet fever.....	1	1
Measles and varicella.....	.....	.....	.....	.....	.....	.....	.....	.....	Riverside.....	1	.....
Mumps and scarlet fever.....	.....	.....	.....	.....	.....	.....	.....	.....	Riverside.....	.....	.....
Diphtheria, measles and varicella.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	9	964	973	1,069	1,069	.....	134	100	.....	815	20
For observation.....	.....	16	16	18	18	.....	.....	.....	Willard Parker.....	2	.....
Accompanying.....	.....	7	7	8	8	.....	6	.....	Scarlet fever.....	1	.....
									Riverside.....	2	.....

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Willard Parker Hospital.—1912.

	Patients.					Diseases.			Patients.					Remaining Dec. 31, 1912.
	Remaining Dec. 31, 1911.	Admitted.		New.	Total Patients Treated.	Transferred from other Con- gious Diseases.	Total Diseases Treated.	Transferred to other Con- gious Diseases.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.	
		Hospital.	Num- ber.								Hospital.	Num- ber.		
Diphtheria.....	61	1,077	{ Reception..... Riverside..... }	13 487	1,638	.....	1,638	.....	1,358	193	{ Reception..... Scarlet Fever.... }	7 5	75	
Total.....	61	1,077	.....	500	1,638	.....	1,638	.....	1,358	193	.....	12	75	

Scarlet Fever Hospital.—1912.

	Patients.					Diseases.				Patients.			
	Remaining Dec. 31, 1911.	Admitted.		New.	Total Patients Treated.	Transferred from other Conta- gious Diseases.	Total Diseases Treated.	Transferred to other Conta- gious Diseases.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.
		Hospital.	Num- ber.								Hospital.	Num- ber.	
Scarlet fever.....	214	1,254	{ Riverside..... Reception..... Riverside..... Reception..... Willard Parker..	596 } 25 12 2 5	2,089	.....	2,089	.....	1,758	165	.....	166	
Diphtheria and scarlet fever.....	2	17			38	.....	38	.....	23	14	.....	.....	1
Total.....	216	1,271			2,127	.....	2,127	.....	1,781	179	.....	.....	167

HOSPITALS.

Riverside Hospital.—1912.

	Patients.				Diseases.				Patients.			
	Remaining Dec. 31, 1911.	Admitted.		Total Treated.	Transferred from other Conta- gious Diseases.	Total Diseases Treated.	Transferred to other Conta- gious Diseases.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.
		New.	Transferred.									
			Hospital.							Num- ber.		
Diphtheria.....	5	627	Willard Parker.....	1	633	633	.....	66	39	Willard Parker.....	527	1
Scarlet fever.....	.....	630	.....	.....	630	630	.....	13	11	Willard Parker.....	606	.....
Measles.....	63	326	Willard Parker.....	602	991	991	.....	851	84	Willard Parker.....	7	49
German measles.....	.....	2	.....	2	.....	2	.....	2	.....	.....	.....	.....
Mumps.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuberculosis.....	203	650	{ Willard Parker..... Otisville.....	50 34	937	937	.....	459	168	Otisville.....	4	306
Cerebro-spinal meningitis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diphtheria and scarlet fever.....	.....	17	Willard Parker.....	32	17	17	.....	47	3	Willard Parker.....	14	1
Diphtheria and measles.....	1	33	Willard Parker.....	32	66	66	.....	.....	18	.....	.....	.....
Diphtheria and varicella.....	.....	1	.....	1	.....	1	.....	.....	.....	Willard Parker.....	1	.....
Scarlet fever and measles.....	.....	9	.....	9	9	9	.....	1	.....	Willard Parker.....	8	.....
Scarlet fever and varicella.....	.....	2	.....	2	2	2	.....	.....	.....	Willard Parker.....	2	.....
Scarlet fever and mumps.....	.....	1	.....	1	1	1	.....	.....	.....	Willard Parker.....	1	.....
Measles and pertussis.....	.....	7	.....	7	7	7	.....	6	1	Willard Parker.....	2	.....
Measles and varicella.....	.....	3	.....	3	3	3	.....	.....	.....	{ Willard Parker..... Kingston Avenue.....	2 1	.....
Total.....	272	2,308	.....	719	3,299	3,299	.....	1,445	324	.....	1,173	357
For observation.....	.....	2	.....	2	2	2	.....	1	.....	Willard Parker.....	1	.....
Accompanying.....	.....	1	Willard Parker.....	3	4	4	.....	3	.....	Willard Parker.....	1	.....

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Kingston Avenue Hospital.—1912.

	Patients.				Diseases.				Patients.			
	Remaining Dec. 31, 1911.	Admitted.			Total Patients Treated.	Transferred from other Contagious Diseases.	Total Diseases Treated.	Transferred to other Contagious Diseases.	Discharged.	Died.	Transferred to.	
		New.	Transferred.								Hospital.	Num- ber.
			Hospital.	Num- ber.								
Diphtheria.....	51	718	.....	.....	760	5	774	27	500	116	.....	.....
Scarlet fever.....	79	910	.....	.....	980	36	1,025	41	734	87	.....	.....
Measles.....	12	357	Reception.....	.....	424	32	456	12	380	52	.....	.....
Smallpox.....	2	10	.....	55	21	1	22	1	22	2	.....	.....
Varicella.....	5	17	Reception.....	1	23	2	25	1	22	2	.....	.....
Pertussis.....	.....	1	.....	.....	1	1	8	.....	8	.....	.....	.....
German measles.....	.....	8	.....	.....	8	.....	.....	.....	.....	.....	.....	.....
Glanders.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....
Typhoid fever.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diphtheria and scarlet fever.....	.....	.....	.....	.....	41	.....	54	15	10	22	.....	.....
Diphtheria and measles.....	4	37	.....	.....	41	13	54	15	10	22	.....	.....
Diphtheria and varicella.....	3	31	Reception.....	2	39	14	53	24	10	19	.....	.....
Diphtheria and pertussis.....	.....	.....	.....	.....	1	2	3	2	1	.....	.....	.....
Diphtheria and typhoid fever.....	.....	3	.....	.....	3	1	4	1	2	.....	.....	.....
Scarlet fever and measles.....	.....	.....	.....	.....	.....	.....	28	.....	26	2	.....	.....
Scarlet fever and varicella.....	2	12	.....	.....	3	25	28	.....	26	2	.....	.....
Measles and pertussis.....	.....	.....	.....	.....	14	8	22	13	7	1	.....	.....
Measles and varicella.....	1	7	.....	.....	8	5	13	7	4	.....	.....	.....
Measles and diphtheria.....	.....	.....	.....	.....	1	3	4	1	2	1	.....	.....
Measles, diphtheria and varicella.....	.....	.....	Riverside.....	1	5	8	13	9	3	1	.....	.....
.....	2	4	.....	.....	4	1	5	2	2	1	.....	.....
Total.....	161	2,135	{ Reception..... Riverside..... }	58 1 }	2,355	159	2,514	156	1,839	307	.....	212
For observation.....	.....	9	.....	.....	9	1	10	4	5	.....	.....	1
Accompanying.....	.....	32	.....	.....	32	.....	32	.....	32	.....	.....	.....

HOSPITALS.

OTISVILLE SANATORIUM.

The year 1912 was marked by considerable activity in the building of new pavilions and by the alteration of existing buildings in order to accommodate additional patients. The new pavilions were commenced at the female unit and will soon be ready for occupancy. The excavations for another building are well under way and will probably be ready to receive patients early in the summer of 1913. The upper floor will be used for a maternity ward, the lower floor for children. These buildings, when completed, will increase the census of this unit by 120 beds. The porches of four male pavilions and one female pavilion were equipped with partitions five and a half feet high, dividing them into cubicles of sufficient size to hold two beds each. The large tent of the female unit which accommodates 16 children was converted into a permanent structure during the summer. An incinerator is in process of installation at the male unit and will serve the purposes of the tent colony.

An active effort is being made to increase the output of the chicken farm. Facilities are at hand at present to care for one thousand hens. Three houses, each of which will accommodate 700 chickens, are in process of construction, and will be ready for the spring hatching. They can be used to house laying hens after the brooding season is over. All the labor of excavating, the cement work of the sides and floors, and a part of the carpenter work of these buildings will be performed by patients.

During the fall of 1911, the former laundry, a frame structure, was burned. A modern fire-proof building to replace it is nearing completion. The large dining hall at the female unit was completed during 1912. Plans for perfecting the water supply were matured during the year and a tunnel, piercing the high hill at the rear of the plant and connecting the forty-acre reservoir on the top with the lines to the buildings, is well under way. This reservoir, which is thoroughly protected from any source of contamination, is to be dredged in the near future. Fire hydrants are being placed at various points about the grounds and weekly fire drills are held. An up-to-date fire alarm system was installed during the winter of 1911-1912.

For the purposes of treatment, the patients are divided into groups, each of which comprises fifty-five to seventy-five members, with a specially trained medical man in charge. This arrangement assures to the patients all the personal attention possible in any but the very smallest institutions.

A new laboratory for research work in tuberculosis is to be established in the antitoxin department. With the abundance of clinical material at hand some very valuable results should be obtained.

CARE OF TUBERCULOSIS AT OTISVILLE SANATORIUM.

General Statement.

	Remaining Dec. 31, 1911.	Admitted.			Total Treated.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.
		New.	Transferred from.					Hospital.	Num- ber.	
			Hospital.	Num- ber.						
Tuberculosis.....	462	968	Riverside...	4	1,434	878	17	Riverside	37	502

Service Rendered.

	Patients.	Patient Days.	Average Days per Patient.	Largest Number at One Time.	Smallest Number at One Time.	Average Patients per Day.
Tuberculosis.....	1,434	179,438	125.1	528	446	490.2

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

*Patients Treated and Condition When Discharged.**

	Totals Case Treated in Year.	Discharged.					Deaths.	Under Treat- ment, Dec. 31, 1912.
		Appar- ently Cured.	Ar- rested.	Im- proved.	Pro- gressive.	Trans- ferred.		
Number—								
Incipient.....	377	61	111	71	12	2	1	119
Moderately advanced.....	904	10	240	246	68	24	8	308
Far advanced.....	153	.....	11	28	20	11	8	75
Percentage—								
Incipient.....	100	16.2	29.4	18.8	3.2	.5	.3	31.6
Moderately advanced.....	100	1.1	26.5	27.2	7.5	2.6	.9	34.1
Far advanced.....	100	.....	7.2	18.3	13.1	7.2	5.2	49.0

* The classification as to stage of disease, etc., is that adopted by the National Association for the Study and Prevention of Tuberculosis.

Duration of Patients' Stay.

	Dis- charged.	Trans- ferred.	Died.	Total Number.	Per Cent.
Total patients discharged, transferred and died.....	878	37	17	932	100.0
Length of stay—					
Under 1 month.....	100	1	3	104	11.1
Over 1 month and under 3 months....	242	16	2	260	27.9
Over 3 months and under 6 months....	285	9	7	301	32.3
Over 6 months.....	251	11	5	267	28.6

Places to Which Patients Discharged.

	Dis- charged.	Trans- ferred.	Total Number.	Per Cent.
Total patients discharged and transferred.....	878	37	915	100.0
Patients discharged to their homes.....	878	.....	878	95.9
Patients discharged to other sanitarium.....	.....	37	37	4.0

CARE OF TUBERCULOSIS AT RIVERSIDE HOSPITAL.

General Statement.

	Remaining Dec. 31, 1911.	Admitted.			Total Treated.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1912.
		New.	Transferred from.							
			Hospital.	Num- ber.						
Tuberculosis.....	203	650	{ Willard Parker.. Otisville... }	{ 50 34 }	937	459	168	Otisville....	4	306

HOSPITALS.

Service Rendered.

	Patients.	Patient Days.	Average Days per Patient.*	Largest Number at One Time.	Smallest Number at One Time.	Average Patients per Day.
Tuberculosis.....	937	92,154	98.3	320	134	251.7

Patients Treated and Condition When Discharged.*

	Total Cases Treated in Year.	Discharged.				Deaths.	Under Treatment, Dec. 31, 1912.
		Transferred.	Arrested.	Improved.	Pro-gressive.		
Number—							
Incipient.....	285	4		95	64		122
Moderately advanced.....	652			50	250	168	184
Far advanced.....							
Percentage—							
Incipient.....	100	1.40		33.3	22.4		42.8
Moderately advanced.....	100			7.7	38.3	25.7	28.2
Far advanced.....							

* The classification as to stage of disease, etc., is that adopted by the National Association for the Study and Prevention of Tuberculosis.

Duration of Patients' Stay.

	Dis-charged.	Trans-ferred.	Died.	Number.	Per Cent.
Total patients discharged, transferred and died.....	459	4	168	631	100
Length of stay—					
Under 1 month.....	135		29	164	26
Over 1 month and under 3 months....	184	3	65	252	39.9
Over 3 months and under 6 months....	77	1	44	122	19.3
Over 6 months.....	63		30	93	14.7

Places to Which Patients Discharged.

	Dis-charged.	Trans-ferred.	Number.	Per Cent.
Total patients discharged and transferred.....	459	4	463	100
Patients discharged to their homes.....	459		459	99.1
Patients discharged to other sanitaria.....				
Patients discharged to work at Otisville.....		4	4	.8

DIVISION OF LABORATORIES

The Division of Laboratories is divided into two subdivisions, the Bacteriological and Chemical Laboratories. In the bacteriological laboratories a considerable portion of the time is devoted to research work concerning problems of a practical nature applicable to the prevention or treatment of disease. In addition, an enormous amount of routine work is performed.

Because of the small force of chemists, the Chemical Laboratory necessarily devotes most of its work to the routine chemical examinations made for the Department of Health and for the Police Department. Whenever possible, some research work is undertaken.

WORK PERFORMED AT THE BACTERIOLOGICAL LABORATORIES.

Bacteriological examinations of some forty thousand samples of milk have been made in order to detect the conditions under which milk is produced, transported and sold. A special investigation of the pasteurization of milk and of the effectiveness of the forms of apparatus employed has been conducted. Examinations of water have also been made daily in order to determine the wholesomeness of wells and of the many other supplies which come under the jurisdiction of the Department of Health. This has included the examination of water supplies at farms furnishing the city with milk and of the water covering oyster beds. So great is the importance of the typhoid carrier on milk farms that wherever any suggestion of peril is found, stools of the men employed at the farms are examined as soon as possible for typhoid bacilli.

The Research Laboratory has produced for free distribution, as in past years, all the products used by the city in the work of preventive medicine, such as diphtheria antitoxin, tetanus antitoxin, antimeningitis serum, antistreptococcus serum, pasteur vaccine, vaccine for smallpox and the bacterial vaccines. The laboratories supplied most of the serum employed in the epidemic of cerebrospinal meningitis in Texas and the Southwest.

During August and September the city was threatened with bubonic plague through possible importation of the infected rats from Porto Rico. In order to insure that any infection that might have taken place should be eradicated, some 3,000 rats were caught on the wharves and carefully examined. Fortunately, no infection was found in them.

The two important new fields of activity undertaken during the year have embraced the investigation of trachoma and infectious eye diseases, and have made available the application of the Wassermann reaction in all cases in New York City in which a suspicion of syphilis or latent gonorrhoea exists.

TRACHOMA STUDIES.

These studies concerning the specific cause and prevention of trachoma have given such evidence as to make the outlook most encouraging for a speedy solution of this problem. It has been demonstrated that:

1. Practically all cases of so-called trachoma (granular and papillary conjunctivitis) in the public schools of New York City have been apparently cured within a year when cases have been seen at or near beginning of disease.
2. With careful treatment of all cases of acute conjunctivitis in homes, clinics and schools, the cases of papillary and granular conjunctivitis have become markedly fewer in number.
3. Prophylactic and curative treatment of these eye conditions has been greatly

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helped by providing special classes in schools for these cases, where they may be under direct and continuous control.

The chief practical point made emphatic in these studies is that all acute cases should have greater care, i. e., they should have more frequent home visiting; there should be frequent examination for infection of other members of the family and continued inspection of the home after the cases are cured. An ophthalmia school has been started.

ESTABLISHMENT OF SERODIAGNOSTIC LABORATORY.

In compliance with sections 4, 5 and 6 of the resolutions regarding venereal diseases adopted by the New York Board of Health on February 29, 1912, a serodiagnostic laboratory for making the Wassermann test for syphilis and the complement fixation test for gonorrhoea was officially established at the Research Laboratory on May 1, 1912. This was done for a double purpose; first, to gain information of the prevalence of these diseases, and secondly, to help the individual case by giving information which would aid in diagnosis and treatment. This test is so difficult and costly that the poor are not able to avail themselves of it unaided. The amount of this work has exceeded all expectations.

A diagnostic clinic for collecting blood specimens in cases in which physicians do not care to collect the blood themselves was held every Monday and Thursday from 9 a. m. to 1 p. m.

During 1912 the average attendance at the clinic was fifteen daily.

Outfits for the use of physicians desiring to collect blood specimens in their offices and at the patients' homes, were prepared and distributed to the Department Supply Stations.

In October, 1912, after a large number of preliminary tests had been successfully performed, the complement fixation test for glanders was added to the work of the serological laboratory. From May 1, 1912, to January 1, 1913, 3,988 sera were tested for syphilis and 384 for gonorrhoea. Diagnostic examinations of smears for gonococci were continued in all cases of suspected vaginitis.

During the months of October, November and December, 1912, 552 specimens of horse sera were tested for glanders.

The Division of Preventive Medicine, which was added to the laboratory two years ago, has responded to all calls from physicians requesting that experts be sent to administer the laboratory products in the homes of the sick. This feature has been of great service to both the physicians and their patients, especially in cases of suspected meningitis. The laboratory bacteriologists and diagnosticians have been able to differentiate certain forms of meningitis from poliomyelitis and so have been able to aid in the diagnosis and treatment of these conditions. It is interesting to note that the general employment of diphtheria antitoxin prepared in the laboratory of the Department of Health has reduced the death rate in diphtheria to the lowest in the history of the city.

EXPERIMENTAL WORK.

A number of important experimental researches have been inaugurated, the results of which will be utilized during 1913.

Extensive studies have been instituted in regard to the most efficient procedure concerning the point (intravenous, intraperitoneal, subcutaneous) of injection of cells in animals in order to produce specific immunity and the results obtained promise a solution of the question. Also studies have been made upon the rate and degree of absorption of antitoxin of different protein concentrations when given subcutaneously. These have shown that the department's preparation of antitoxin could with safety be even more concentrated than at present. Studies have been continued upon the chemical character of diphtheria antitoxin, etc.

A series of cases of pneumonia has been treated with a serum produced in the laboratory. The results have encouraged us to employ it more extensively during 1913. The

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methods of the transmission of scarlet fever, typhus fever and of hydrophobia have been carefully studied during the year. The knowledge that the virus of rabies will pass through stone filters is one of the important results of these studies.

A final report of our investigations on the relation of bovine infection to human tuberculosis was made. This has attracted a great deal of attention and aided very much in establishing the relation of tuberculosis in cattle to that of man. Other subjects taken under investigation were Vincent's Angina and Noma. The routine work is briefly summed up in the tables.

VACCINE LABORATORY.

The method of obtaining seed for vaccinating calves which was devised early in 1911, and was used extensively during the last eight months of that year, was employed during the entire year of 1912 with eminently satisfactory results. There were no failures, the yield of virus per calf was increased by 37% over 1911, and 51% over 1910, and the life of the virus was almost uniformly long so that practically none of it was wasted. It was thus possible to reduce the number of calves vaccinated from 124 in 1910, and 89 in 1911, to 48 in 1912. A further reduction in the number of calves vaccinated and a corresponding increase in output per calf is expected during 1913. During the latter part of the year a new style of package for the capillary tubes of vaccine virus was devised, the improved package to be substituted for the old style early in 1913.

CHEMICAL LABORATORY.

The court work for the Police Department is constantly increasing and takes up much valuable time. The following table shows the number of half days of attendance at court required by the health department and police department respectively during the years 1911 and 1912.

Number of Half Days of Attendance at Court.

	Health.		Police.	
	1911.	1912.	1911.	1912.
January.....	20	21	14	27
February.....	9	24	17	23
March.....	18	22	20	41
April.....	17	15	20	23
May.....	17	11	27	29
June.....	15	18	15	27
July.....	16	10	7	25
August.....	8	16	13	37
September.....	28	7	11	42
October.....	39	19	16	52
November.....	20	22	24	39
December.....	25	17	15	31
Total.....	232	202	199	396

BUREAU OF RECORDS

VITAL STATISTICS OF NEW YORK CITY FOR THE YEAR
ENDING DECEMBER 31, 1912

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POPULATION.

The population of the City of New York, according to the State Census of 1905, was 4,014,304 and to the Federal Census of 1910 was 4,766,883, an increase of 752,579. Assuming that the geometric rate of increase prevailing in the quinquennium 1905-1910 has been maintained since 1910, the estimated population of the City of New York on July 1, 1912 was 5,173,064, divided among the five boroughs as follows:

Manhattan.....	2,438,001
The Bronx.....	531,219
Brooklyn.....	1,776,878
Queens.....	334,297
Richmond.....	92,669

The table on next page shows the population of the City of New York in 1900 and 1910 according to the Federal Censuses, arranged by age groups.

It is to be noted that the percentage under one year is less in 1910 than in 1900. This is due probably to an incomplete census return for infants under one year in 1910. In this year there were 129,080 births reported. Assuming 98 per cent. of births were reported, 130,382 births occurred. There were 16,215 deaths under one year during 1910, leaving a probable population of 114,167 under one year as against census figures, 110,524. In estimating this number the question of emigration and immigration of those under one year was not considered as figures were not obtainable.

The percentage of children under five years of age is stated as 10.6, the lowest reported in at least two generations, that of 1865 having been 13.1, that of 1875, 12.3, the censuses following showing a percentage varying between 11.5 and 11.6: between the ages 5 to 19 the percentage is given as 27.5 as against 27.9 in 1900; between 20 to 64 the percentage is 58.4, one-tenth of one per cent. less than in 1900, and at age grouping 65 and over the percentage rose from 2.79 in 1900 to 2.83 in 1910.

The following table shows the excess of males or females for different age periods in year 1910 in New York City.

	Excess of Males.	Excess of Females.
Under 1 year.....	1,550	.....
1 to 4 years.....	2,828	.....
5 to 9 years.....	.....	43
10 to 14 years.....	.....	1,235
15 to 19 years.....	.....	25,474
20 to 24 years.....	.....	29,436
25 to 29 years.....	7,917	.....
30 to 34 years.....	17,190	.....
35 to 44 years.....	23,686	
45 to 54 years.....	14,930	
55 to 64 years.....		4,465
65 and over.....		12,957

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Population of the City of New York in 1900 and in 1910 According to Returns of Federal Censuses of 1900 and 1910, Arranged by Age Groups.

	1900.				1910.			
	Population.	Per Cent.	Males.	Females.	Population.	Per Cent.	Males.	Females.
Total.....	3,437,202	100.0	1,705,705	1,731,497	4,766,883	100.0	2,382,482	2,384,401
Under 1 year.....	86,597	2.5	43,765	42,832	110,524	2.3	56,037	54,487
1 to 4 years.....	310,690	9.0	155,918	154,772	396,556	8.3	199,692	196,864
5 to 9 years.....	354,747	10.3	177,591	177,156	438,263	9.1	219,110	219,153
10 to 14 years.....	301,264	8.8	149,906	151,358	422,431	8.8	210,598	211,833
15 to 19 years.....	302,751	8.8	149,670	162,081	457,616	9.6	216,071	241,545
20 to 24 years.....	354,841	10.3	161,988	192,853	531,868	11.1	251,216	280,652
25 to 29 years.....	363,393	10.6	178,390	185,003	499,149	10.4	253,533	245,616
30 to 34 years.....	317,960	9.2	164,788	153,172	422,450	8.8	219,820	202,630
35 to 44 years.....	494,045	14.4	261,095	232,950	692,116	14.5	357,901	334,215
45 to 54 years.....	288,332	8.4	146,495	141,837	437,194	9.1	226,062	211,132
55 to 64 years.....	161,283	4.7	78,692	82,591	216,593	4.5	106,064	110,529
65 years and over.....	95,863	2.8	42,714	53,149	135,321	2.83	61,182	74,139
Unknown years.....	5,436	0.15	3,693	1,743	6,802	0.14	5,196	1,606

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The excess of males up to five years is due probably to the natural excess of male births over female births. Then, as the more venturesome male loses his life more often than the less exposed female, an excess of females begins to appear and continues to increase up to the twenty-fifth year. It is likely, however, that a good deal of the apparent excess of females from 15 to 24 is due to the placing of their ages in this period by females who are older than 25, and in a slight degree to the lessened female mortality at this age group. After 25, the immigration of males causes an excess in the male population up to 55. Then again, the more exposed life of the males and their greater mortality reduce their number so that after 55 the females are again in excess. On the whole, the excess ($2\frac{1}{2}$) of females amounts in absolute numbers to 1,919, or one-fiftieth of one per cent.

BIRTHS.

There were reported during 1912, in the City of New York, 135,655 births, giving a rate of 26.22 per 1,000 of population. The births and rates by boroughs are as follows:

	Births.	Rate per 1,000.
Manhattan.....	66,249	27.17
The Bronx.....	13,676	25.74
Brooklyn.....	45,454	25.58
Queens.....	8,002	23.93
Richmond.....	2,274	24.54

The birth rates for the City of New York for the preceding ten years are as follows:

1903.....	25.06
1904.....	25.52
1905.....	25.80
1906.....	26.83
1907.....	27.98
1908.....	28.39
1909.....	26.54
1910.....	26.87
1911.....	27.00
1912.....	26.22

It must be borne in mind that the City of New York has never had a complete registration of all the births occurring within its limits and that it is only within the past seven years that the percentage of registration has reached 95 to 98. The decrease in the birth rate is due chiefly to the avoidance of motherhood by many of the married females, especially those of native birth, and if it were not for the presence of the foreign mother, the birth rate would approximate the death rate. The following crude birth rates per 1,000, of the nationalities mentioned emphasize this view strongly: the rate per 1,000 of entire native population in the year just passed was 17, of the Italian population 88, Russian and Polish 53, Irish 31, Swedish 27. Compared by a more accurate standard, that is, the rate per 1,000 females between the ages 15 to 45, to the native mother is credited a birth rate of 29 against 112 to the foreign mother, almost in proportion of 1 to 4; other factors in the decreasing birth rate are the postponement of marriage to a later age, and the degree of financial prosperity among the community in general.

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The birth rates for 1912 of some large cities of the world are as follows:

Foreign Cities.	Rate per 1,000.	American Cities.	Rate per 1,000.
Amsterdam.....	23.06	Baltimore.....	20.01
Berlin.....	20.26	Boston.....	25.32
Birmingham.....	26.05	Buffalo.....	26.05
Edinburgh.....	20.86	Detroit.....	29.20
Genoa.....	20.07	Cincinnati.....	20.57
Liverpool.....	29.56	Cleveland.....	21.86
London.....	24.67	Pittsburgh.....	26.00
Milan.....	22.88	San Francisco.....	14.93
Paris.....	16.81	St. Louis.....	20.79
Stockholm.....	20.86	Washington, D. C.....	19.85

It is evident from the above table that the birth rate of the city compares more than favorably with that of the large cities of the world, and only one of the foreign cities given in the table possesses a rate higher than that of New York; it must be admitted that several of the American cities given in the table do not possess even approximately complete registration of births.

In 1912, the number of children recorded as born of native mothers was 43,685; of foreign mothers 91,970; or 32.2% of the births were of native mothers and 67.8 of foreign. Of the 91,970 births of foreign mothers, 30,044 or 32.7% were of Italian mothers, 25,714 or 28.0% Russian-Polish, 14,221 or 15.5% Austrian, 7,842 or 8.5% Irish, 4,160 or 4.5% German, and 9,989 or 10.8% of other foreign mothers.

As usual, there were more males born than females, the males numbering 69,425, the females 66,230. There were reported 2,416 births of colored children, 24 births of Chinese children, 2,017 births of apparently illegitimate children, 1,330 pairs of twins and 9 sets of triplets; 82,912 births were attended by physicians and 52,743 by midwives.

STILL-BIRTHS.

During 1912, there were reported 6,619 still-births, or a rate of 1.28 per 1,000. These occurred during the different months of uterogestation, as follows:

	2	3	4	5	6	7	8	9	10	Not Stated.
Number of still-births.	32	132	289	590	781	927	756	2,808	255	48
Per cent.....	.48	2.0	4.4	8.9	11.8	14.0	11.4	42.4	3.9	0.7

MARRIAGES.

The number of marriages reported during 1912 was 51,703, during 1911, 48,765, making an increase for 1912 of 2,938. The marriage rate per 1,000 of population in 1912 was 9.99 against 9.79 in 1911, an increase of .20 of a point.

Of males married there were 47,446 single, 3,826 widowed, and 431 divorced. Of females, 47,768 were single, 3,346 widowed and 589 divorced. There were married 67 bachelors out of every 1,000 above fifteen years of age, as compared with 77 spinsters, that is, 11 out of every 1,000 spinsters married either widowers or divorced men, the number of bachelors marrying widows or divorcees not being of sufficient number to affect the conclusion just stated. Out of every 1,000 widowers 61 remarried, while only 18 widows did likewise; the marriage rates of divorced men (140 out of every 1,000) and of

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divorced women (113 out of every 1,000) are rather high and are in measure dependent upon the misstatements made to the census enumerators by divorcees, who prefer to be numbered among the single or widowed; 20 white females married negroes and 5 white females married Chinamen.

Of 51,703 couples married, 10,436 males and 11,672 females were native born, and 21,344 males and 20,108 females were foreign born; 8,269 marriages were performed by Catholic clergymen, 6,915 by Protestant, 8,920 by Jewish, and 23 by the leader of the Society of Ethical Culture; 7,611 couples were married by aldermen and 42 by judges.

DEATHS.

There were 73,008 deaths reported in the City during 1912, equivalent to a death rate of 14.11 per 1,000 of the population, against a rate of 15.13 in 1911, a decrease of 1.02 points. The rates of the various boroughs in 1912, based upon the number of deaths reported therein were: Manhattan 14.99, The Bronx 13.07, Brooklyn 13.50, Queens 11.90, and Richmond 16.64. The rates based upon the correction of the deaths for borough of residence were: Manhattan 14.91, The Bronx 12.01, Brooklyn 13.79, Queens 12.78, and Richmond 15.33, this last high rate being due to two factors, first the presence of a large number of residents at advanced ages among whom high death rates prevail and the presence of two large institutions, the inmates of which come from towns and cities outside New York, and whose deaths cannot be distributed at present to the cities whence the decedents came.

The number of deaths that actually occurred in the city in 1912 was 73,100, an increase of 92 over the number reported, the death rate for the former mortality being 14.13, an increase of .02 of a point from all causes of death: the rate from specific diseases, such as tuberculosis, cancer and pneumonia, etc., being affected only in the fourth integer. The chief reason for the adoption of the reported and not the actual mortality is the saving of time in the issuance of the monthly, quarterly and annual reports. The table on next page shows the difference between the reported and actual number of deaths from all causes and from certain prominent diseases in the various boroughs and city.

As the age groupings of the population of the city have remained fairly constant since the organization of the Board of Health in 1866, it is fair to make comparison of the rates of the present with those of the past years. The rate per 1,000 of the population in the area covered by the present city in the decennium 1868-77 was 27.17, in the following decennia 25.27, 23.62 and 19.17 respectively; in the quinquennium, 1908 to 1912, the rate fell to 15.51 and if compared with the rates of the foregoing decennia in the order given, a reduction of 43 per cent., 39 per cent., 34 per cent., and 19 per cent. will be found.

The table on page 19 shows the increased or decreased mortality at various age groups of the year 1912, compared with that of the three years 1909 to 1911. The greatest gain is to be found at the age group under five years and is in harmony with the greatly decreased mortality at this age during the past forty years; the number of lives gained at other individual age groupings is insignificant in comparison; at the ages 70 to 75 years among males and 80 to 85 years among females there was a slight loss of life.

COMPLETE LIFE TABLE FOR CITY.

On pages 176-177 will be found a complete life table based upon the mortality of the years 1909-1911 and the population returns of the Federal Census of 1910; on page 178 will be found a copy of the American Experience Table of Mortality upon which are based in a measure the rates charged in insuring lives, the latter table representing the probabilities of living of individuals, chiefly males, who have been insured after medical examination, and usually termed selected lives.

A comparison of the male table based upon the experience of the individuals living in the City of New York with that of the American Table based upon medical examination, shows that at all ages up to 78 years the selected lives can look forward to an increased

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Reported and Actual Mortality, Year 1912.

	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.	
	Reported Mortality.	Actual Mortality.	Reported Mortality.	Actual Mortality.	Reported Mortality.	Actual Mortality.	Reported Mortality.	Actual Mortality.	Reported Mortality.	Actual Mortality.	Reported Mortality.	Actual Mortality.
All causes.....	36,548	36,585	6,944	6,956	23,994	24,019	3,978	3,988	1,544	1,552	73,008	73,100
Typhoid fever.....	192	190	26	26	231	230	48	48	2	2	499	496
Smallpox.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2	.....
Measles.....	306	306	109	112	203	204	41	41	12	13	671	676
Scarlet fever.....	314	315	54	54	225	225	16	17	6	7	615	618
Whooping cough.....	164	164	12	12	86	86	21	21	4	4	287	287
Diphtheria and croup.....	529	527	125	125	400	399	54	55	17	17	1,125	1,123
Diarrheal diseases under five years.....	2,046	2,043	297	299	1,558	1,556	298	298	106	106	4,305	4,302
Pulmonary tuberculosis...	4,068	4,086	1,580	1,583	2,441	2,441	357	360	145	148	8,591	8,614
Bronchopneumonia.....	2,453	2,461	320	318	1,581	1,589	225	225	82	81	4,661	4,674
Lobar pneumonia.....	2,645	2,657	469	467	1,811	1,815	292	291	101	102	5,318	5,332

Comparative Mortality of City of New York, During the Three Years, 1909 to 1911, and Year 1912, With Gain or Loss in Number of Lives and Years of Life.

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after lifetime of several years. After 78 years of age the difference is slightly in favor of the unselected lives.

The table on page 160 gives the population, deaths and death rates for the Greater City since its formation in 1898.

DEATH RATE.

The death rate from all causes reached the lowest level on record, 14.11 per 1,000, a decrease of 1.02 points compared with that of 1912 and of 3.90 points compared with the average rate of the preceding fourteen years, this latter fall in the rate being equivalent to a saving of 20,174 lives during the year 1912.

MORTALITY UNDER FIVE YEARS OF AGE.

In 1912 the rate was 38.3 per 1,000 children living at these ages, a decrease of 3.8 points compared with that of 1911 and a decrease of 17.1 points compared with the average rate for the preceding fourteen years, in this latter comparison a reduction of 33 per cent. The death rate of children under five years of age is considered by demographers as a most trustworthy index of the sanitary conditions prevalent in a community, and this excellent showing is due in great measure to the steps taken by the sanitary officials to minimize the mortality among children, especially from the infectious diseases of childhood, to wit, measles, scarlet fever, diphtheria and croup and diarrhoeal diseases.

TYPHOID FEVER.

The lowest mortality ever recorded in the city from this cause took place in 1912, the rate being 10 per 100,000 as against 11 in 1911 and 16 for the average preceding fourteen years.

MALARIAL FEVERS.

Twenty deaths were reported from malarial fevers in 1912 as compared with 38 in 1911 and 250 in 1898. This decrease is due in great measure to the more accurate certification of causes of death on the part of physicians, who are aided in their diagnoses by the free examination of blood by the department in all suspected cases of malarial and typhoid fever.

SMALLPOX.

Two deaths were reported from smallpox during the year against three reported in 1911. During the past ten years 49 deaths have occurred in the city from this cause, a yearly average of almost five.

MEASLES.

There were 671 deaths and a rate of 13 per 100,000 of the population reported in 1912 against 659 deaths and the same rate in 1911. The average rate for the preceding fourteen years was 18.5, that of 1912 showing a decrease of 5.5 points. Out of 671 deaths in the city, 631 or 94 per cent. were at ages below five years, the greatest mortality occurring at one year of age. The Borough of The Bronx showed a mortality of 9, Brooklyn 11, Queens 12, Richmond 13, and Manhattan 15, per 100,000 of the population.

SCARLET FEVER.

There were 615 deaths and a rate of 12 per 100,000 recorded in 1912, as against 741 deaths and a rate of 15 in 1911, a decrease of 126 deaths and 3 points in the rate; the average rate for the preceding fourteen years was 20, the rate for 1912 showing a decrease of 8 points per 100,000 of population, a saving of 413 lives from this cause. This is one of the lowest rates on record, and is the same as that occurring in 1905 and 1906. Out of 615 deaths from this cause, 550 or almost 90 per cent. were below the age of 10 years, the greatest mortality occurring between the ages of five and ten years. The three larger boroughs, Manhattan, Brooklyn and The Bronx, had each the same mortality, 12 per 100,000; that of Queens and Richmond showed the much lower mortality of 7 per 100,000.

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DIPHTHERIA AND CROUP.

There were 1,125 deaths and a rate of 22 per 100,000 reported during the year, against 1,281 deaths and a rate of 26 per 100,000 in 1911, a decrease of 4 points: the average rate for the preceding fourteen years was 47, the rate for 1912 thus showing a decrease of 53 per cent. in the mortality. At the ages under 10 years, 1,071 deaths were reported out of a total of 1,125 at all ages, constituting 95 per cent. of all deaths, the greatest mortality, as in measles, occurring at one year of age.

WHOOING COUGH.

The deaths and death rates from whooping cough were 287 and 5 per 100,000 respectively, in the year 1912, against 384 deaths and a rate of 8 in 1911, a decrease of 97 deaths and 3 points; the rate from 1898 to 1911 inclusive was 10.6 per 100,000, the rate for 1912 showing a decrease of 53 per cent. Out of the total of 287 deaths, 132 were of male and 155 of female children, whooping cough being one of the few causes of death in which the mortality is greater among females than among males. Ninety-five per cent. of all deaths occurred during the first five years of life; 55 per cent. occurred before arrival at the first year of life.

PULMONARY TUBERCULOSIS.

There were 8,591 deaths and a rate of 166 per 100,000 of the population as against 8,790 deaths and a rate of 176 during 1911, a decrease of 199 deaths and 10 points. The average rate for the preceding 14 years was 211, the rate in 1912 showing a decrease of 45 points, or a saving of 2,328 lives. By reason of the presence of large institutions in the Boroughs of The Bronx and Richmond, a majority of whose inmates are afflicted with tuberculosis and who are residents of other boroughs, the death rates uncorrected for the borough of residence are misleading. The uncorrected rate for the Borough of Manhattan was 169, the corrected 189 per 100,000; the Borough of The Bronx had an uncorrected rate of 297 and a corrected rate of 146; Brooklyn's uncorrected rate was increased from 137 to 148; Queens' from 107 to 133, while that of Richmond was lowered from 148 to 137 per 100,000. Out of 8,591 deaths, the males numbered 5,673, the females, 2,918; the number of deaths under 5 years for both sexes was 144 or less than 2 per cent. of the total; among the males the greatest mortality took place at 35 to 40 years of age, 909 deaths or 16 per cent. of all males' deaths; between the ages of 20 and 50 the male deaths numbered 4,221 or 75 per cent. of the male deaths at all ages; among the females the greatest mortality was found at the age groups 20 to 25 years and 25 to 30 years, the number of deaths reported at each of these age groups being exactly the same, namely, 444 deaths; between the ages of 20 to 50 years the female deaths numbered 2,118 or 73 per cent. of the female deaths at all ages. There were 297 deaths of colored males and 199 of colored females reported, the rate for the colored males based on population figures of Census of 1910, being 705, and colored females 401 per 100,000, that of both sexes being 540 per 100,000. These rates contrast strongly with those of the white males and females based upon the population figures of the Census of 1910, the white males giving a rate of 230 and white females a rate of 125 per 100,000 of each sex, that of both sexes being 178 per 100,000.

EFFECTS OF MARRIAGE UPON TUBERCULOSIS MORTALITY.

At ages 15 to 24 years the rate was 146 among the single males and 121 among the married males, the widowers at this age being so few that rates would be misleading; at this same age group the rate among single females was 106, married females 174 and widowed 353, this last rate being rather questionable. The rate of total mortality at this age group was 144 for males and 122 for females. At ages 25 to 44 the rates among the single, married and widowed males were 545, 233 and 1,148 respectively, and among single, married and widowed females, 172, 163 and 358. The rate of total mortality at this age group was 344 for males and 176 for females. At ages 45 years and over the rates among

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single, married and widowed males were 1,196, 249 and 637 respectively, and among single, married and widowed females, 175, 109 and 1,556 respectively. The rate of total mortality at this age group was 403 for the males and 133 for the females. At all ages over 15 years the total mortality according to civil condition was represented by a death rate of 348 among bachelors, 233 among married men, 750 among widowers, 130 among spinsters, 151 among married women and 344 among widows.

The death rate of males, irrespective of marriage at ages above 15 years was 301 per 100,000 against a rate of 149 among females. It is evident that the death rates of single males at each age group are greatly in excess of the married males, being almost two and a half times as great at the ages 25 to 44 years and five times as great at ages 45 years and over. On the other hand, the mortality among widowers at 25 to 44 years is slightly more than double that of the bachelors and five times that of the benedicts, and at ages 45 years and over is one-half that of the bachelors and two and a half times that of benedicts.

Among females no such decided contrasts in the mortality rates appear as among males. The single female presents a lower mortality at ages 15 to 24 years than her married sister, at ages 25 to 44, a slightly increased mortality, and at 45 years and over a considerably increased mortality. Widows present a mortality treble that of the single and double that of the married at ages 15 to 24, double that of single and of married at ages 25 to 44, and a slightly decreased mortality compared with single and a considerably increased mortality compared with married at ages 45 years and over.

ACUTE RESPIRATORY DISEASES.

There were 10,711 deaths reported and a rate of 207 per 100,000 during 1912 from bronchitis and pneumonia combined, as compared with 10,932 and a rate of 220 per 100,000 in 1911, a decrease of 221 deaths and 13 points. The average rate from these combined causes for the fourteen years 1898-1911 inclusive, was 290, the rate of 1912 being 83 points lower, equivalent to a saving of 4,293 lives.

DIARRHEAL DISEASES UNDER FIVE YEARS OF AGE.

There were 4,149 deaths and a rate of 760 per 100,000 children living at those ages in the year 1912, as compared with 4,696 deaths and a rate of 890 in 1911, a decrease of 547 deaths and 130 points in the rate. The average rate for the fourteen years 1898-1911 was 1302 per 100,000 children, the rate for 1912 showing a decrease of 542 points.

CANCER.

There were 4,071 deaths and a rate of 79 per 100,000 reported during the year, as compared with 3,873 deaths and a rate of 78 during 1911, an increase of 198 deaths and of 1 point in the rate. The average rate for the fourteen years 1898-1911 was 70 per 100,000, the rate for 1912 showing an increase of 9 points. The question is often asked, "Is this increase an actual one, or is it due to the more accurate and complete diagnoses of the disease as a result of advanced technique and greater knowledge of the cause of cancer?"

The following table shows the deaths and death rates at ages over 35 years from cancer of various organs and parts of the body for the years 1901 and 1912:

	1901.		1912.	
	Deaths.	Death Rates Per 100,000.	Deaths.	Death Rates Per 100,000.
Cancer of mouth, tongue, lips, etc.....	104	7	146	7
Cancer of stomach and liver.....	987	70	1,589	77
Cancer of intestines and peritoneum....	324	24	575	28
Cancer of skin.....	56	4	66	3
*Cancer of uterus.....	379	54	564	56
*Cancer of breast.....	206	30	337	33
Cancer of other organs.....	349	25	639	31
*Non-cancerous tumors of uterus and ovaries.....	158	22	115	11

* Rate per 100,000 females.

VITAL STATISTICS.

A perusal of the above table will show that of all the visible and accessible cancers, the only variety showing a slight increase in the rate in the past eleven years is that of cancer of the breast, the other accessible cancers (as cancer of the mouth, tongue and skin) show a rate the same as that of eleven years ago. Cancer of the uterus, which might be termed an accessible form, shows an increase of 2 points per 100,000, but if the non-cancerous tumors of the female genital organs be grouped with the cancerous the result will be a decrease in the rate of 9 points per 100,000: undoubtedly, some of the non-cancerous tumors of the womb have been by reason of more accurate diagnosis transferred of recent years to the cancerous variety. On the other hand, cancers of the inaccessible variety such as those of the stomach, liver, intestines, spleen, bladder and kidney, show an increased death rate leading us to conclude that the increase in all cancer is due in great measure to more careful and accurate diagnoses and certification on the part of the physicians.

INFLUENCE OF MARRIAGE UPON CANCER.

Cancer being a disease of advanced life, that is, over forty-five years of age, a few words as to influence of civil condition. The single males at ages over 45 years show a mortality of 326 per 100,000 living at those ages as compared with a rate of 280 among married men and 575 among widowers, so that the married man at middle and advanced age is less liable to death from cancer. The single females at ages over 45 years have a rate of 449 per 100,000 living at those ages, as against 347 among the married females and 571 among widows, the rate among married females indicating less liability to death from cancer than among spinsters and widows.

ORGANIC HEART AND KIDNEY DISEASE.

These two diseases by reason of the frequency with which they are given conjointly as causes of death, and the lack of uniformity of procedure as to assignment of one or the other as the chief or determining cause, should be combined in discussion of mortality from each.

In 1912 there were reported 14,614 deaths and a rate of 285 per 100,000, as compared with 13,072 deaths and a rate of 262 in 1911. The average rate for the fourteen years 1898-1911 inclusive was 274 per 100,000, the rate for 1912 showing an increase of 11 points.

In the decennium 1878-1887 the rate from these combined causes was 195 per 100,000, in the next decennium it rose to 244, in that of 1898-1907 it reached 278, and in the quinquennium 1908-1912 it retrograded to 269.

INFANT MORTALITY.

This is expressed as a ratio to every one thousand births reported in cities and countries where the registration of births is fairly complete; in this city the number of births received is estimated at 98 per cent. of the total occurring. The number of infants under one year of age dying in the year 1912 was 14,289 with a death rate of 105 per 1,000 births, against 15,053 deaths and a rate of 112 in 1911. This is the lowest infant death rate ever recorded in the city. On a previous page is given the excellent showing of the city as to infant mortality compared with that of various large foreign and domestic cities.

The following table shows the infant mortality in the city at subdivisions of this age for fifty-two weeks of 1912, from all causes and diarrhoeal diseases:

Ages.	All Causes.	Diarrhoeal Diseases.
Under 1 month.....	5,165	281
1 month and under 2 months.....	1,430	378
2 months and under 3 months.....	1,144	421
3 months and under 6 months.....	2,539	1,030
6 months and under 9 months.....	2,132	762
9 months and under 12 months.....	1,801	507
Total under 1 year.....	14,211	3,379

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Out of every one thousand deaths under one year of age in 1912 from all causes, 363 died before the completion of the first month of life, 544 before the age of three months was reached, and 723 before attaining six months of life.

The following table gives the causes of death under one year of age and the percentages of all deaths occurring at this age in the city for 1909:

Causes.	Number of Deaths.	Per Cent. of Total.
All causes.....	14,289	100.0
Congenital.....	5,477	38.3
Diarrhoeal.....	3,392	23.7
Acute respiratory.....	3,226	22.6
Contagious.....	506	3.5
Tuberculosis.....	291	2.0
Convulsions.....	221	1.5
Syphilis.....	217	1.5
Erysipelas.....	154	1.1
Violence.....	130	0.9
Meningitis.....	92	0.6
Other causes.....	583	4.1

In 1912 almost 2 out of every 5 children that died under one year of age were doomed to death by reason of congenital defects, either from malformations of the heart, brain, spine or other organs, from prematurity, from inherited weakness, difficulty in delivery, etc.; the probability of living among these defectives was zero.

Over 46 per cent. of the total mortality was due to diarrhoeal and acute respiratory diseases. Eighteen male and thirteen female infants under one year of age were victims of homicide.

The table on page 198 gives the mortality per 1,000 infants living in the former City of New York, present Boroughs of Manhattan and The Bronx, for a series of years, and shows considerable reductions in the death rate from the various causes specified therein with the exception of syphilis, which shows a material increase.

SEARCHES AND TRANSCRIPTS.

Since 1904 the work of making searches and issuing transcripts of the records has increased tremendously. Previous to 1904 the only searches made without cost was in the event of application for employment certificates between the ages of 14 and 16 years, but the rule of the Superintendent of the Department of Education, compelling every child entering school to obtain a certificate of birth from the Department of Health had the effect of increasing the searches from 36,074 in 1903 to 68,824 in 1904.

In 1912 over 110,000 free searches of the records of birth were made, 63,000 of which were for school and the remainder for employment purposes. In addition, the paid searches increased from 27,340 in 1902 to 62,784 in 1912; the number of paid transcripts issued in 1912 was 58,541. Of these over 45,000 were copies of certificates of death, over 8,000 of certificates of birth, and almost 5,000 certificates of marriage.

VITAL STATISTICS.

Report of Bureau of Records for Year Ending December 31, 1912

	Borough of					City of New York.
	Manhattan.	*The Bronx.	Brooklyn.	Queens.	Richmond.	
Number of deaths.....	36,548	6,944	23,994	3,978	1,544	73,008
Death rate.....	14.99	13.07	13.50	11.90	10.66	14.11

* The death rate in the Borough of The Bronx is materially increased by the deaths in institutions, most of the inmates having been transferred from the Borough of Manhattan.

Borough.	Estimated Population.	Certificates Received and Tabulated.				Rate per 1,000.				Transit Permits Issued.	Coroners' Cases.	Searches Made.	Transcripts Issued.
		Marriages.	Births.	Deaths.	Still-births.	Marriages.	Births.	Deaths.	Still-births.				
Manhattan.....	2,438,001	31,780	66,249	36,548	3,311	13.04	27.17	14.99	1.36	1,181	5,314	94,131	30,579
The Bronx.....	531,219	2,823	13,076	6,944	628	5.30	25.74	13.07	1.38	40	900	13,578	4,928
Brooklyn.....	1,770,878	14,563	48,434	23,994	2,435	8.20	28.58	13.50	1.26	655	3,162	56,768	19,502
Queens.....	334,297	2,007	8,002	3,978	374	6.00	23.93	11.90	1.12	949	731	7,324	2,900
Richmond.....	92,669	530	2,274	1,544	71	5.72	24.54	15.66	0.77	28	252	1,823	796
City of New York....	5,173,064	51,703	135,655	73,008	6,619	9.99	26.22	14.11	1.28	2,853	10,359	173,624	58,705

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Report of Bureau of Records for Year Ending December 31, 1912.—Continued

	Borough of				City of New York.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Number of deaths in institutions.....	17,091	2,872	6,870	684	659
Number of deaths in tenements.....	10,559	2,712	10,283	966	125
Number of deaths in dwellings.....	1,402	1,194	6,275	2,135	679
Number of deaths in hotels and boarding-houses.....	499	10	110	55	16
Number of deaths in streets, rivers, etc.....	997	156	456	138	65
					28,176
					30,645
					11,685
					600
					1,812

Corrected Interborough Deaths.	Residents of				Totals.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.
Died in Manhattan.....	.....	737	714	186	49
Died in The Bronx.....	1,190	.....	106	27	13
Died in Brooklyn.....	153	18	.....	277	2
Died in Queens.....	80	13	106	.....	1
Died in Richmond.....	57	5	39	3	.....
Net change.....	—206	—563	+515	+293	—39
Corrected actual borough death rates.....	14.91	12.01	13.79	12.78	15.33
					1,686
					1,336
					450
					200
					104
					
					

VITAL STATISTICS.

Searches and Transcripts, Year 1912

	Free Searches.			Paid Searches.			Total Paid Searches.	Total Searches Free and Paid.
	School.	Employment	Total.	Births.	Marriages.	Deaths.		
Manhattan—								
Searches.....	33,229	26,316	59,545	7,122	4,146	23,318	34,586	94,131
Transcripts.....				5,233	3,259	22,087	30,579	
Not founds.....							4,422	
The Bronx—								
Searches.....	5,359	3,977	9,336	428	112	3,743	4,283	13,619
Transcripts.....				365	55	4,341	4,761	
Not founds.....							135	
Brooklyn—								
Searches.....	21,230	14,776	36,006	4,715	2,145	13,902	20,762	56,768
Transcripts.....				2,302	1,379	15,821	19,502	
Not founds.....							3,041	
Queens—								
Searches.....	2,473	2,362	4,835	362	102	1,922	2,386	7,221
Transcripts.....				283	84	2,529	2,896	
Not founds.....							117	
Richmond—								
Searches.....	666	414	1,080	230	40	497	767	1,847
Transcripts.....				194	26	583	803	
Not founds.....							72	
City of New York—								
Searches.....	62,957	47,845	110,802	12,857	6,545	43,382	62,784	173,586
Transcripts.....				8,377	4,803	45,361	58,541	
Not founds.....							7,787	

Corrected Mortality from all Causes.

1912.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....		737	714	186	49	1,686
The Bronx.....	1,190		106	27	13	1,336
Brooklyn.....	153	18		277	2	450
Queens.....	80	13	106		1	200
Richmond.....	57	5	39	3		104
Plus.....	1,480	773	965	493	65	3,776
Minus.....	1,686	1,336	450	200	104	3,776
Net gain or loss.....	-206	-563	+515	+293	-39	
Deaths reported.....	36,548	6,944	23,994	3,978	1,544	73,008
Death rate.....	14.99	13.07	13.50	11.90	16.66	14.11
Corrected deaths.....	36,342	6,381	24,509	4,271	1,505	
Corrected rate.....	14.91	12.01	13.79	12.78	15.33	

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Corrected Measles Mortality.

1912.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	.....	3	2	.....	.....	5
The Bronx.....	64	.....	.....	.....	1	65
Brooklyn.....	7	.....	.....	.....	.....	7
Queens.....	.....	.....	.....	.....	.....	.....
Richmond.....	.....	.....	.....	.....	.....	.....
Plus.....	71	3	2	.....	1	77
Minus.....	5	65	7	.....	.....	77
Net gain or loss.....	+66	-62	-5	.....	+1	.....
Deaths reported.....	306	109	203	41	12	671
Death rate.....	.13	.21	.11	.12	.12	.13
Corrected deaths.....	372	47	198	41	13	.....
Corrected rate.....	.15	.09	.11	.12	.13	.....

Corrected Scarlet Fever Mortality.

1912.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	.....	24	1	2	1	28
The Bronx.....	13	.....	.....	.....	.....	13
Brooklyn.....	.....	.....	.....	6	.....	6
Queens.....	.....	.....	.....	.....	.....	.....
Richmond.....	.....	.....	.....	.....	.....	.....
Plus.....	13	24	1	8	1	47
Minus.....	28	13	6	.....	.....	47
Net gain or loss.....	-15	+11	-5	+8	+1	.....
Deaths reported.....	314	54	225	16	6	615
Death rate.....	.13	.10	.13	.05	.06	.12
Corrected deaths.....	299	65	220	24	7	.....
Corrected rate.....	.12	.12	.12	.07	.07	.....

VITAL STATISTICS.

Corrected Pulmonary Tuberculosis Mortality.

1912.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....		70	159	37	6	272
The Bronx.....	776		77	14	6	873
Brooklyn.....	10	1		39		50
Queens.....	2		1		1	4
Richmond.....	17		6	1		24
Plus.....	805	71	243	91	13	1,223
Minus.....	272	873	50	4	24	1,223
Net gain or loss.....	+533	-802	+193	+87	-11	.....
Deaths reported.....	4,068	1,580	2,441	357	145	8,591
Death rate.....	1.69	2.97	1.37	1.07	1.48	1.66
Corrected deaths.....	4,601	778	2,634	444	134	.....
Corrected rate.....	1.89	1.46	1.48	1.33	1.37	.....

Corrected Diarrhæal Disease Mortality Under Two Years.

1912.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....		20	18	2	1	41
The Bronx.....	4			1		5
Brooklyn.....	4			13		17
Queens.....	1		2			3
Richmond.....	4		2	1		7
Plus.....	13	20	22	17	1	73
Minus.....	41	5	17	3	7	73
Net gain or loss.....	-28	+15	+5	+14	-6	.....
Deaths reported.....	1,805	281	1,485	278	99	3,948
Death rate.....	15.49	11.07	17.48	17.40	22.36	15.97
Corrected deaths.....	1,777	296	1,490	292	93	
Corrected rate.....	15.19	11.66	17.54	18.28	21.01	

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Deaths According to Cause, Annual Rate per 1,000, and Age, with Meteorology and Number of Deaths in Public Institutions, by Weeks, for the Year 1912.

Week Ending	Jan. 6.	Jan. 13.	Jan. 20.	Jan. 27.	Feb. 3.	Feb. 10.	Feb. 17.	Feb. 24.	Mar. 2.	Mar. 9.	Mar. 16.	Mar. 23.	Mar. 30.	Apr. 6.	Apr. 13.	Apr. 20.	Apr. 27.	May 4.	May 11.	May 18.	May 25.	June 1.	June 8.	June 15.	June 22.	June 29.
Total deaths.....	1,495	1,455	1,578	1,561	1,593	1,511	1,604	1,635	1,546	1,608	1,602	1,534	1,617	1,691	1,600	1,562	1,520	1,542	1,461	1,475	1,483	1,275	1,338	1,204	1,206	1,233
Annual death rate.....	14.17	14.07	15.01	15.77	16.06	15.24	16.17	16.49	15.59	16.21	16.15	15.47	16.31	17.05	16.14	15.75	15.42	15.55	14.73	14.75	14.83	12.86	13.49	12.14	12.16	12.43
Typhoid Fever.....	11	6	9	10	13	7	10	8	5	5	5	4	7	3	6	2	9	2	4	5	6	4	9	3	10	11
Malarial Fevers.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles.....	7	11	6	10	11	14	10	18	24	17	14	29	20	33	40	24	31	25	29	42	22	22	21	18	19	17
Scarlet Fever.....	8	12	5	8	17	16	15	18	17	24	22	23	22	24	28	30	20	20	20	15	15	15	15	10	7	16
Whooping Cough.....	3	6	2	3	8	4	3	3	1	7	4	6	8	3	5	5	3	8	10	11	4	6	3	6	3	7
Diphtheria and Croup.....	20	31	26	22	27	35	25	32	34	30	25	25	30	27	38	23	28	24	29	15	15	15	23	25	19	.....
Influenza.....	4	8	10	8	8	9	15	14	8	11	13	7	14	6	7	9	9	7	2	5	4	3	3	2	1	.....
Cerebrospinal Meningitis.....	2	4	2	3	1	2	6	5	7	9	5	7	5	5	13	13	2	4	4	4	7	7	6	7	4	4
Tuberculosis Pulmonalis.....	167	165	171	195	187	181	210	220	203	197	208	181	219	208	181	192	188	188	174	178	183	136	143	135	135	135
Other Tuberculosis.....	23	11	26	25	34	25	31	22	31	32	24	20	28	32	41	42	37	28	34	35	30	26	30	25	23	23
Acute Bronchitis.....	20	22	29	23	19	20	18	21	15	30	12	18	20	24	22	19	18	24	15	16	13	12	17	6	7	6
Pneumonia.....	126	119	166	150	170	168	171	167	144	134	162	160	151	137	113	141	118	112	120	137	109	92	84	76	72	62
Broncho-pneumonia.....	96	97	122	112	119	95	107	127	114	112	135	108	135	133	125	116	119	131	133	123	134	88	102	72	60	79
Diarrheals under 5.....	30	30	30	29	28	31	35	30	24	43	51	35	27	44	46	41	40	45	35	34	57	46	51	42	48	66
Under one year Diarrheal diseases.....	27	27	26	25	24	24	30	23	21	41	44	28	22	37	37	30	36	32	26	22	49	37	38	31	35	42
Other Causes under 1.....	225	231	253	240	239	217	220	235	252	218	246	286	239	255	259	221	225	204	251	255	230	214	211	196	180	180
Diarrheals under 1—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Institutions.....	10	7	6	2	4	6	4	11	4	9	9	2	7	11	13	20	14	15	9	5	11	10	13	10	12	21
Tenements.....	17	20	20	23	20	18	26	12	17	32	35	26	15	26	24	10	22	17	17	35	27	35	25	21	23	21
Violent Deaths.....	65	76	79	71	78	68	69	75	63	84	76	59	67	83	98	70	75	78	84	50	88	81	78	74	68	94
Under one year.....	252	258	279	233	263	241	250	258	273	259	290	314	261	292	296	251	261	296	277	277	279	251	249	227	215	222
Under five years.....	353	361	393	384	374	308	400	426	455	468	418	474	483	418	438	418	438	465	476	461	549	380	387	368	343	347
Five to sixty-five years.....	770	803	856	908	872	840	886	929	858	882	860	814	897	912	841	861	833	787	775	756	716	718	769	662	663	667
Sixty-five years and over.....	282	291	317	317	332	297	320	297	280	300	287	252	302	305	276	283	258	290	210	246	266	177	182	174	200	189
In Public and Private Institutions.....	492	519	522	528	580	561	599	601	597	594	596	567	647	656	598	607	589	590	560	581	530	500	554	458	506	523
Inquest cases.....	213	211	188	216	197	191	201	223	188	240	198	182	185	204	223	178	201	183	187	167	190	168	184	178	161	181
Mean barometer.....	29.927	30.024	29.96	29.86	29.74	29.83	29.99	29.82	29.91	30.21	29.88	30.12	29.80	29.88	29.89	29.89	29.98	29.94	29.78	29.81	29.96	29.90	29.94	29.84	29.98	29.84
Mean humidity.....	62.	63.	64.	62.	69.	59.	60.	64.	61.	71.	69.	68.	68.	62.	67.	79.	62.1	55.1	75.9	73.1	62.	60.6	54.3	52.7	58.3	61.9
Inches of rain or snow.....	32	7.26	2.49	2.50	1.75	2.70	00.	1.10	1.43	2.75	4.34	2.27	2.80	3.3	63	1.42	54	61	2.30	1.00	2.24	1.86	52	1	79	25
Mean temperature (Fahrenheit).....	25.9°	15.2°	25.4°	27.8°	26.1°	10°	25.4°	36.6°	31.3°	30.3°	30.6°	30.1°	43.7°	49.1°	47.6°	51.9°	55.3°	54.7°	56°	59.7°	67°	69.3°	68.9°	65.3°	69.7°	75.9°
Maximum temperature (Fahrenheit).....	38°	44°	54°	43°	37°	34°	46°	53°	59°	40°	60°	62°	68°	79°	74°	77°	68°	73°	76°	89°	86°	91°	83°	88°	94°	94°
Minimum temperature (Fahrenheit).....	6°	-3°	-2°	10°	10°	0°	-1°	23°	18°	15°	23°	23°	24°	29°	33°	41°	43°	37°	48°	45°	50°	52°	51°	52°	58°	59°

VITAL STATISTICS.

Deaths According to Cause, Annual Rate per 1,000, and Age, with Meteorology and Number of Deaths in Public Institutions, by Weeks, for the Year 1912.

(Continued)

Week Ending	July 6.	July 13.	July 20.	July 27.	Aug. 3.	Aug. 10.	Aug. 17.	Aug. 24.	Aug. 31.	Sept. 7.	Sept. 14.	Sept. 21.	Sept. 28.	Oct. 5.	Oct. 12.	Oct. 19.	Oct. 26.	Nov. 2.	Nov. 9.	Nov. 16.	Nov. 23.	Nov. 30.	Dec. 7.	Dec. 14.	Dec. 21.	Dec. 28.
Total deaths.....	1,273	1,300	1,309	1,315	1,367	1,267	1,362	1,310	1,317	1,229	1,251	1,162	1,194	1,274	1,393	1,243	1,238	1,149	1,302	1,216	1,354	1,262	1,420	1,333	1,481	1,403
Annual death rate.....	12.84	13.20	13.26	13.26	13.78	12.73	13.73	13.24	13.28	12.39	12.62	11.72	12.04	12.85	14.05	12.53	12.48	11.59	13.13	12.26	13.65	12.62	14.32	13.44	14.93	14.15
Typhoid Fever.....	6	7	14	13	7	9	16	19	19	14	18	22	22	15	15	18	11	14	14	5	14	9	12	6	5	6
Malarial Fevers.....	.....	.....	.....	.....	1	.....	.....	.....	2	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles.....	18	10	5	12	4	7	8	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scarlet Fever.....	13	8	4	9	12	4	7	3	3	1	5	4	2	3	5	1	2	9	1	5	8	2	8	8	15	7
Whooping Cough.....	8	13	6	9	3	12	10	3	16	13	6	7	6	2	4	8	4	3	2	3	2	3	6	1	1	1
Diphtheria and Croup.....	25	20	14	14	12	20	9	10	7	12	10	10	12	13	19	13	12	15	17	22	20	10	30	27	26	20
Influenza.....	1	1	1	1	1	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cerebrospinal Meningitis.....	10	9	4	10	5	3	2	7	5	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuberculosis Pulmonalis.....	161	156	151	146	127	161	126	166	135	127	149	122	126	155	168	148	122	123	135	148	163	152	166	153	175	147
Other Tuberculosis.....	28	27	18	28	20	18	24	21	27	29	25	20	25	28	25	18	20	13	33	18	27	22	25	11	10	23
Acute Bronchitis.....	8	5	3	7	8	6	7	6	4	8	8	6	6	15	10	10	12	11	12	12	11	18	12	20	13	13
Pneumonia.....	75	63	29	50	44	52	58	38	36	47	38	53	40	52	64	60	89	83	89	77	115	98	127	135	150	131
Broncho-Pneumonia.....	61	81	49	39	55	37	49	62	54	53	48	53	43	50	54	70	72	67	73	77	60	102	80	109	87	100
Diarrheals under 5.....	90	146	198	241	214	214	219	211	196	171	167	148	169	130	110	87	81	67	62	41	39	29	31	26	25	29
Under one year Diarrhoeal diseases.....	72	121	154	164	198	175	169	170	158	140	140	129	133	112	93	72	70	58	49	30	33	24	20	10	22	22
Other Causes under 1.....	195	188	174	187	198	179	186	187	211	182	174	185	175	159	190	201	191	105	182	189	213	183	217	157	185	177
Diarrheals under 1—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Institutions.....	16	27	37	36	61	62	55	63	55	45	37	44	96	47	37	22	20	20	21	16	14	7	6	9	8	8
Tenements.....	56	94	117	128	137	113	114	107	103	95	103	85	71	55	86	56	41	38	28	23	10	17	11	11	141	141
Violent Deaths.....	72	132	133	87	84	86	97	81	93	74	68	71	71	54	54	68	73	69	84	81	98	59	73	76	87	.....
Under one year.....	267	309	328	351	396	354	355	357	369	322	314	314	308	271	280	273	261	223	231	228	216	207	237	177	204	190
Under five years.....	426	448	453	494	522	499	498	470	473	430	400	395	418	381	394	372	331	309	332	354	283	345	279	311	381	325
Five to sixty-five years.....	643	732	601	652	641	625	686	687	689	665	660	668	668	693	737	672	671	635	717	671	776	703	701	782	861	783
Sixty-five years and over.....	204	210	195	169	241	173	183	183	183	194	191	158	174	200	202	198	236	205	253	230	224	265	281	272	309	295
In Public and Private Institutions.....	495	554	507	531	537	514	569	547	544	464	524	449	449	513	582	496	485	435	514	451	535	457	502	508	561	492
Inquest cases.....	186	206	201	186	195	176	200	187	191	157	158	166	166	171	194	162	183	181	205	170	228	170	200	215	231	180
Mean barometer.....	30.10	29.92	29.77	29.71	29.90	29.90	29.68	29.80	29.91	29.89	29.87	30.10	30.09	29.94	30.03	29.85	29.86	29.86	29.97	29.87	29.91	29.93	30.02	29.90	29.81	29.93
Mean humidity.....	55.9	66.6	69.	54.4	66.3	68.4	63.7	75.6	63.3	84.1	61.4	74.1	75.6	64.4	60.6	59.	71.9	62.	63.6	63.6	55.3	61.7	71.7	52.9	64.9	66.4
Inches of rain or snow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean temperature (Fahrenheit).....	74.3°	80.6°	75.1°	71.1°	70.7°	70.6°	75.6°	73.6°	68.4°	69.6°	72.9°	68.	60.7°	59.1°	63.4°	57.9°	56.1°	54.4°	51.6°	51.7°	48.3°	40.1°	48.	33.4°	41.1°	33.6°
Maximum temperature (Fahrenheit).....	89.	97.	94.	83.	86.	79.	91.	87.	92.	87.	91.	82.	70.	78.	81.	72.	69.	72.	67.	66.	55.	40.1°	48.	33.4°	41.1°	33.6°
Minimum temperature (Fahrenheit).....	59.	69.	60.	60.	58.	56.	58.	62.	51.	57.	55.	55.	47.	39.	49.	40.	47.	37.	31.	35.	32.	28.	18.	40.	51.	44.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Particulars Regarding Births, Deaths, Marriages and Still-

CITY OF

	Total.	White.		Colored.		Chinese.		Native Parents.		Foreign Parents.		Parentage of Mixed Nativities.		Parentage Unknown or Not Stated.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
*Marriages..	51,703	50,457	50,482	1,240	1,220	6	1	.....	.....	.....	.....	.....	.....	.....	.....
*Births.....	135,655	68,169	65,046	1,245	1,171	11	13	17,278	16,514	43,605	41,700	8,044	7,563	498	453
Deaths.....	73,008	38,853	31,571	1,287	1,205	91	1	7,788	6,697	26,797	21,857	3,414	2,932	2,232	1,291
Still-births..	116,619	3,667	2,634	135	99	.....	.....	1,028	765	2,221	1,535	351	287	202	146

* The Returns of Births and Marriages are incomplete.

|| Sex undetermined, 84.

BOROUGH OF

Marriages...	31,780	30,920	30,943	855	836	5	1	.....	.....	.....	.....	.....	.....	.....	.....
Births.....	66,249	33,024	31,504	878	823	9	11	6,115	5,921	24,145	23,120	3,206	2,894	445	403
Deaths.....	36,548	19,528	15,320	876	745	78	1	3,389	2,896	13,908	10,902	1,477	1,232	1,708	1,036
Still-births...	13,311	1,802	1,293	94	68	.....	.....	385	307	1,271	863	140	113	100	78

† Sex undetermined, 54.

BOROUGH OF

Marriages....	2,823	2,795	2,795	28	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births.....	13,676	7,010	6,561	50	55	.....	.....	2,061	1,946	3,562	3,276	1,437	1,394	.....	.....
Deaths.....	6,944	3,814	2,957	85	87	1	.....	711	568	2,706	2,117	370	302	113	57
Still-births...	1628	346	259	3	6	.....	.....	113	72	157	130	62	42	17	21

† Sex undetermined, 14.

BOROUGH OF

Marriages....	14,563	14,234	14,234	328	329	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births.....	45,454	22,920	22,017	268	246	1	2	6,726	6,453	13,827	13,304	2,584	2,458	52	50
Deaths.....	23,994	12,481	10,941	253	308	11	.....	2,939	2,561	8,295	7,391	1,246	1,158	265	139
Still-births...	2,235	1,262	906	33	22	.....	.....	417	307	689	469	118	111	71	41

§ Sex undetermined, 12.

BOROUGH OF

Marriages...	2,007	1,990	1,992	17	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births.....	8,002	4,079	3,862	34	26	1	.....	1,889	1,736	1,625	1,535	600	617	.....	.....
Deaths.....	3,978	2,118	1,750	54	55	1	.....	545	486	1,368	1,093	220	183	40	43
Still-births...	Δ 374	210	154	4	3	.....	.....	95	72	84	61	25	19	10	5

Δ Sex undetermined, 3.

BOROUGH OF

Marriages...	530	518	518	12	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births.....	2,274	1,136	1,102	15	21	.....	.....	487	458	446	465	217	200	1	.....
Deaths.....	1,544	912	603	19	10	.....	.....	204	186	520	354	101	57	106	16
Still-births...	**71	47	22	1	.....	.....	.....	18	7	20	12	6	2	4	1

** Sex undetermined, 1.

VITAL STATISTICS.

births Reported During the Year Ending December 31, 1912.

NEW YORK.

Single.		Married.		Widowed.		Divorced.		Not Stated.		Month of Uterogestation.										
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	I	2	3	4	5	6	7	8	9	10	Not Stated
47,446	47,768	.....	.....	3,826	3,346	431	589	.....	.....	1	2	3	4	5	6	7	8	9	10	Not Stated
21,071	14,574	14,199	9,780	4,357	8,249	52	50	552	124	1	32	132	289	590	781	927	756	2,808	255	48

MANHATTAN.

29,239	29,321	.....	.....	2,250	2,024	291	435	.....	.....											
11,194	7,549	6,855	4,579	2,006	3,820	30	28	397	90											
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23	86	159	304	410	432	375	1,263	230	29	

THE BRONX.

2,592	2,658	.....	.....	217	140	14	25	.....	.....											
1,936	1,305	1,481	955	449	772	5	4	29	8											
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	8	22	63	72	87	74	273	13	13

BROOKLYN.

13,299	13,429	.....	.....	1,154	1,020	110	114	.....	.....											
6,460	4,736	4,700	3,462	1,470	3,013	16	15	99	23											
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	35	95	185	254	343	252	1,050	12	3	

QUEENS.

1,825	1,870	.....	.....	171	127	11	10	.....	.....											
1,020	744	868	592	274	464	.....	3	11	2											
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	9	33	38	53	49	188	..	1		

RICHMOND.

491	490	.....	.....	34	35	5	5	.....	.....											
461	240	295	192	158	180	1	.....	16	1											
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	...	4	5	7	12	6	34	...	2	

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Mortality from Principal Causes, With Ages of

Cause of Death	BOROUGH OF MANHATTAN												Total
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	3,394	3,300	3,564	3,336	3,226	2,709	2,841	2,923	2,515	2,890	2,750	3,100	36,548
1. Typhoid fever.....	15	15	13	6	7	14	19	18	24	31	17	13	192
2. Typhus fever.....													
3. Malarial fevers.....			1			1	1	1	1	1		1	7
4. Smallpox.....													
5. Measles.....	18	32	48	54	51	31	21	15	5	6	9	16	306
6. Scarlet fever.....	13	41	55	67	54	36	13	11	4	6	6	8	314
7. Whooping cough.....	10	5	12	7	23	10	18	23	20	14	10	12	164
8. Diphtheria and croup.....	52	61	56	48	60	43	36	23	23	29	44	54	529
9. Influenza.....	15	18	23	15	7	4	1	1	2	5	6	6	103
10. Asiatic cholera.....													
11. Cholera nostras.....													
12. Other epidemic diseases...	20	34	43	35	21	23	14	9	12	9	9	15	244
13. Tuberculosis pulmonalis...	386	378	415	390	349	316	304	320	260	310	313	327	4,068
14. Tuberculous meningitis...	26	46	50	72	54	38	38	30	37	28	27	23	469
15. Other forms of tuberculosis...	28	28	29	29	41	31	22	22	34	29	29	26	338
16. Cancer, malignant tumors...	175	176	183	168	197	164	179	183	151	175	193	210	2,154
17. Meningitis, simple.....	18	20	30	24	15	26	20	23	11	10	12	15	224
17a. (Of which) Cerebrospinal meningitis.....	5	10	18	15	8	13	20	11	6	6	8	8	128
18. Apoplexy and softening of brain.....	81	69	52	57	43	29	38	35	40	18	36	42	540
19. Organic heart disease.....	480	381	391	338	289	300	299	266	257	306	340	405	4,058
20. Acute bronchitis.....	43	33	37	26	32	14	16	14	19	24	26	24	308
21. Chronic bronchitis.....	5	4	5	5	5	3	1	1	1	1	4	3	37
22. Pneumonia (excluding broncho-pneumonia)...	307	316	342	247	277	167	110	100	100	191	180	308	2,645
22a. Broncho-pneumonia.....	246	243	274	277	276	184	152	130	116	166	170	219	2,453
23. Other respiratory diseases...	15	23	24	24	17	18	21	10	16	18	17	19	231
24. Diseases of stomach (cancer excepted).....	18	12	19	19	17	11	15	9	9	24	19	13	185
25. Diarrhoeal diseases (under 5 years).....	67	58	84	98	88	102	307	449	311	188	85	53	1,890
26. Appendicitis and typhilitis.....	23	24	28	35	26	29	38	32	28	17	26	23	329
27. Hernia and intestinal obstruction.....	34	30	28	26	33	26	30	10	20	31	21	18	316
28. Cirrhosis of the liver.....	33	23	30	34	32	26	33	46	21	54	32	51	415
29. Bright's disease and acute nephritis.....	251	248	264	265	212	216	202	184	178	251	250	280	2,801
30. Diseases of women (not cancers).....	9	5	15	15	16	10	17	11	11	11	10	9	139
31. Puerperal septicæmia.....	11	7	12	12	8	4	5	8	8	2	1	2	80
32. Other puerperal diseases...	20	29	28	24	17	14	10	19	16	17	18	14	226
33. Congenital debility and malformations.....	215	209	246	174	260	185	245	267	210	257	197	182	2,677
34. Old age.....	32	27	32	23	23	20	12	16	17	20	20	20	262
35. Violent deaths (suicide excepted).....	181	162	173	191	183	194	218	198	167	159	181	178	2,185
a. Effects of heat.....							31	2					33
b. Other accidents.....	161	146	154	170	174	179	164	186	150	143	166	169	1,962
c. Homicides.....	20	16	19	21	9	15	23	10	17	16	15	9	190
36. Suicides.....	41	43	38	33	43	37	21	33	37	34	38	55	449
37. Other Causes.....	501	496	483	493	446	382	358	386	327	442	394	455	5,103
38. Causes not known or ill-defined.....	5	4	1	5	4	1	7	2	6	7	4	1	47
Under 1 year.....	622	601	723	628	709	510	716	850	673	658	501	484	7,675
1 year, under 2 years.....	137	163	216	219	209	162	171	144	118	108	99	139	1,885
Total under 5 years.....	856	917	1,108	1,026	1,091	815	1,021	1,100	884	877	696	731	11,122
65 years and over.....	608	548	565	524	468	353	364	337	329	459	460	579	5,594
70 years and over.....	419	377	352	331	308	224	242	214	213	311	303	384	3,678
Males.....	1,888	1,856	2,012	1,885	1,791	1,529	1,618	1,666	1,379	1,582	1,538	1,729	20,473
Females.....	1,506	1,444	1,552	1,451	1,435	1,180	1,223	1,257	1,136	1,308	1,212	1,371	16,075
Colored.....	147	158	165	131	151	118	150	138	118	130	114	108	1,628
Chinese.....	8	4	6	7	2	8	8	3	3	11	7	4	76
Institutions.....	1,517	1,491	1,597	1,576	1,468	1,330	1,408	1,433	1,211	1,410	1,281	1,389	17,091
Tenements.....	1,576	1,573	1,668	1,518	1,491	1,174	1,219	1,292	1,125	1,243	1,238	1,444	16,559
Dwellings.....	151	138	168	120	127	85	84	70	83	110	119	147	1,402
Hotels, etc.....	59	43	70	44	37	27	28	35	25	39	42	50	499
Others.....	91	75	61	78	103	93	104	93	71	88	70	70	997

VITAL STATISTICS.

Decedents for Year Ending December 31, 1912

BOROUGH OF THE BRONX												
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
627	651	654	691	614	508	562	542	501	493	466	635	6,944
2	.....	1	1	4	.....	3	5	5	1	2	2	26
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
6	7	7	21	34	14	7	4	4	1	.....	4	109
3	5	8	13	7	8	7	1	.....	.....	1	1	54
.....	2	1	.....	2	.....	1	1	2	.....	.....	3	12
9	17	17	13	13	11	10	9	2	5	9	10	125
6	5	5	7	3	1	1	.....	1	3	4	3	38
.....												
3	4	7	4	6	.....	3	2	1	.....	.....	.....	30
135	153	170	162	130	132	106	120	111	113	108	140	1,580
3	6	5	9	8	6	4	3	6	7	4	3	61
3	3	4	4	4	4	5	4	4	5	4	5	49
30	28	25	33	22	25	32	30	27	31	19	41	343
.....	4	4	2	3	6	6	4	5	1	2	1	38
.....	1	3	2	3	4	5	2	1	.....	.....	.....	21
.....												
16	12	8	8	8	12	14	10	9	4	6	14	121
88	87	81	85	63	63	63	58	47	87	57	90	869
2	4	5	5	.....	2	1	.....	1	.....	2	4	26
1	1	.....	1	.....	.....	1	1	.....	.....	1	.....	6
59	78	65	48	45	29	19	11	11	24	30	52	469
39	35	36	34	41	18	17	12	9	17	27	35	320
3	4	6	2	5	6	6	5	2	3	2	6	50
2	3	3	3	3	1	2	2	6	4	1	5	35
14	10	16	10	16	8	56	67	60	24	10	6	297
4	2	5	5	.....	3	8	8	1	.....	2	7	45
4	1	4	5	6	5	4	7	5	5	4	5	55
13	5	6	6	4	5	3	3	6	6	6	6	69
45	41	34	55	36	36	38	34	35	22	28	39	443
5	1	2	1	.....	2	.....	.....	1	.....	1	1	14
2	2	2	4	1	3	2	1	1	3	2	1	24
7	3	5	6	4	2	1	3	4	3	4	7	49
30	34	30	37	27	30	39	45	39	27	37	38	413
4	5	3	7	8	1	1	5	4	4	8	2	52
21	18	22	27	32	20	39	24	26	36	32	26	323
.....	.....	.....	.....	.....	.....	7	1	.....	.....	.....	.....	8
21	17	20	26	32	17	28	23	25	34	28	26	297
.....	1	2	1	.....	3	4	.....	1	2	4	.....	18
3	7	7	11	9	10	8	6	3	5	4	9	82
65	64	60	61	70	45	56	57	62	52	49	69	710
.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	3
86	100	95	94	95	67	119	127	117	69	79	73	1,121
25	29	25	30	43	29	33	26	18	12	14	25	399
126	151	148	154	176	123	176	172	145	99	109	118	1,697
120	113	104	125	87	68	75	75	82	88	81	115	1,133
76	84	69	92	61	41	46	48	56	60	54	74	761
362	359	358	397	334	269	332	318	287	293	258	353	3,900
265	292	296	294	280	239	230	224	214	220	208	282	3,044
19	17	16	23	15	10	10	7	8	10	11	22	168
.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
240	273	283	329	267	229	247	208	185	206	169	236	2,872
262	258	260	235	240	176	204	240	191	187	190	269	2,712
119	111	102	109	92	90	94	78	110	82	88	119	1,194
1	3	2	1	1	.....	1	1	.....	.....	.....	.....	10
5	6	7	17	14	13	16	15	15	18	19	11	156

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Mortality from the Principal Causes, With Ages of

Cause of Death	BOROUGH OF BROOKLYN												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Total, all causes.....	2,147	2,169	2,316	2,294	2,076	1,704	2,016	1,783	1,727	1,838	1,840	2,084	23,994
1. Typhoid fever.....	24	17	8	11	7	14	18	27	43	30	18	14	231
2. Typhus fever.....													
3. Malarial fevers.....													
4. Smallpox.....	1	1						1	2	4	1	1	10
5. Measles.....	8	27	30	54	38	22	13	7			3	1	203
6. Scarlet fever.....	25	20	32	30	19	13	13	9	5	10	16	33	225
7. Whooping cough.....	5	3	7	8	11	7	15	8	9	8	2	3	86
8. Diphtheria and croup.....	40	40	49	52	25	31	27	10	24	25	32	45	400
9. Influenza.....	14	20	19	13	6	1	1	2	1	3	8	27	115
10. Asiatic cholera.....													
11. Cholera nostras.....													
12. Other epidemic diseases.....	13	20	9	23	16	7	8	7	4	4	6	9	126
13. Tuberculosis pulmonalis.....	211	258	260	235	221	168	207	174	151	174	170	212	2,441
14. Tuberculous meningitis.....	19	21	20	21	29	17	19	14	18	16	11	10	215
15. Other forms of tuberculosis.....	13	10	12	14	19	11	12	13	17	16	23	14	174
16. Cancer, malignant tumors.....	90	103	103	109	101	95	101	97	128	104	114	107	1,252
17. Meningitis, simple.....	8	5	7	6	15	7	10	4	6	3	5	7	83
17a. (Of which) cerebrospinal meningitis.....	4	2	3	2	5	2	5	3	2	2	2	3	35
18. Apoplexy and softening of brain.....	41	32	41	23	29	18	21	16	20	25	20	21	307
19. Organic heart disease.....	360	326	323	269	267	243	207	194	238	254	255	283	3,219
20. Acute bronchitis.....	55	32	39	48	34	16	12	9	11	21	35	31	343
21. Chronic bronchitis.....	7	14	7	13	10	8	3	3	6	4	11	15	101
22. Pneumonia (excluding broncho-pneumonia).....	218	236	220	189	162	98	70	74	65	104	150	225	1,811
22a. Broncho-pneumonia.....	159	148	193	200	184	116	82	71	67	102	104	155	1,581
23. Other respiratory diseases.....	16	11	19	16	15	14	9	5	11	21	10	24	171
24. Diseases of stomach (cancer excepted).....	15	11	16	14	16	11	15	11	15	22	13	13	172
25. Diarrheal diseases (under 5 years).....	47	43	69	60	74	88	318	304	254	167	83	51	1,558
26. Appendicitis and typhilitis.....	13	13	20	18	24	24	24	14	21	16	10	11	208
27. Hernia and intestinal obstruction.....	18	11	11	19	16	11	17	15	17	12	12	11	170
28. Cirrhosis of the liver.....	33	22	34	28	37	30	32	28	24	31	35	27	361
29. Bright's disease and acute nephritis.....	131	171	167	219	167	145	169	154	131	164	176	183	1,977
30. Diseases of women (not cancerous).....	7	9	10	5	8	6	12	3	3	6	5	10	84
31. Puerperal septicæmia.....	7	4	3	6	8	4	3	10	4	2	2	1	54
32. Other puerperal diseases.....	18	15	11	17	10	17	17	18	14	13	19	20	189
33. Congenital debility and malformations.....	97	80	99	114	90	95	112	94	94	106	94	87	1,162
34. Old age.....	19	17	15	20	14	15	7	11	5	21	12	11	167
35. Violent deaths (suicide excepted).....	90	89	83	94	89	78	149	94	78	74	109	94	1,121
a. Effects of heat.....							31	3	1				35
b. Other accidents.....	88	70	74	88	86	75	110	80	73	70	104	89	1,007
c. Homicides.....	2	19	9	6	3	3	8	11	4	4	5	5	79
36. Suicides.....	17	13	24	17	17	18	24	14	12	20	15	23	214
37. Other causes.....	307	327	356	329	297	256	269	267	229	255	261	305	3,458
38. Causes not known or ill-defined.....	1							1		1			3
Under 1 year.....	346	280	374	398	352	318	524	446	417	383	326	389	4,453
1 year, under 2 years.....	82	95	116	166	150	90	102	115	71	74	68	78	1,207
Total under 5 years.....	510	476	606	669	611	484	716	620	548	517	466	459	6,682
65 years and over.....	478	496	474	437	377	300	322	311	300	365	390	474	4,724
70 years and over.....	328	349	312	315	252	205	224	228	198	250	268	319	3,248
Males.....	1,182	1,168	1,250	1,229	1,144	892	1,054	965	867	965	941	1,087	12,744
Females.....	965	1,001	1,066	1,065	932	812	962	818	860	873	899	997	11,250
Colored.....	50	51	62	47	46	37	48	39	38	45	54	44	561
Chinese.....	2		2	1		1	2	1		1		1	11
Institutions.....	538	594	648	619	589	515	620	562	482	557	539	607	6,870
Tenements.....	941	918	999	1,021	880	707	872	771	766	766	746	896	10,283
Dwellings.....	608	609	629	607	550	437	466	408	435	467	515	544	6,275
Hotels, etc.....	19	16	13	10	10	6	4	1	4	14	7	6	110
Others.....	41	32	27	37	47	39	54	41	40	34	33	31	456

VITAL STATISTICS.

Decedents for Year Ending December 31, 1912

BOROUGH OF QUEENS												
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
357	316	356	348	329	309	362	370	296	296	301	338	3,978
I	I	3	2	.....	3	I	16	6	4	8	3	48
.....	.....	.....	.....	.....	.....	.....	I	I	.....	.....	.....	2
I	.....	4	3	7	10	12	.....	.....	.....	.....	4	41
I	.....	3	2	I	I	4	I	.....	2	.....	I	16
5	I	3	2	I	4	I	I	I	I	.....	I	21
2	7	4	7	6	4	3	6	2	3	5	5	54
.....	I	2	2	.....	.....	I	.....	.....	.....	I	3	10
.....	.....	.....	.....	I	2	3	3	I	I	I	I	13
31	38	30	23	40	29	32	23	32	24	24	31	357
.....	2	4	5	3	2	4	2	2	I	2	.....	27
.....	.....	2	3	4	3	3	2	3	3	3	3	29
26	11	23	22	16	15	20	20	11	21	18	19	222
2	2	2	4	I	2	.....	I	3	I	2	I	21
I	I	I	I	.....	I	.....	I	2	.....	I	.....	9
13	5	2	3	7	5	2	I	3	2	6	5	54
58	42	58	57	31	38	43	46	33	38	38	47	529
6	8	7	7	4	5	.....	I	I	5	2	5	51
.....	I	I	.....	I	.....	.....	.....	.....	.....	.....	2	6
35	31	38	28	25	18	11	15	9	19	28	35	292
25	26	24	14	35	20	12	6	13	17	18	15	225
2	I	I	3	2	I	I	I	.....	2	.....	3	17
2	.....	3	I	2	2	2	I	2	5	3	2	25
6	5	9	9	9	24	67	76	50	27	9	7	298
3	2	8	4	4	7	3	4	I	I	2	3	42
2	3	I	4	5	2	5	5	4	.....	7	4	42
8	3	8	7	3	3	3	6	4	2	9	4	60
28	29	25	30	23	19	27	29	18	26	26	34	314
I	I	I	.....	.....	.....	2	.....	I	.....	2	.....	8
.....	2	.....	2	.....	I	.....	I	.....	I	I	2	11
2	I	2	2	3	.....	6	2	I	4	I	3	27
21	15	14	14	21	22	25	18	25	13	17	21	226
7	5	I	5	5	2	7	I	2	5	I	2	43
20	8	21	23	18	23	25	28	17	20	18	22	243
.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	4
18	7	21	21	18	21	21	28	17	19	18	21	230
2	I	.....	2	.....	2	.....	.....	.....	I	.....	I	9
I	2	7	9	3	4	2	8	6	6	3	I	52
48	63	44	51	46	38	34	43	44	42	46	49	548
.....	.....	.....	.....	2	.....	I	I	.....	.....	.....	.....	4
66	51	47	53	54	63	99	97	86	59	57	52	784
12	10	18	8	23	23	24	18	12	15	6	10	179
83	72	76	74	91	103	145	126	109	85	78	73	1,115
97	88	69	79	62	48	60	46	36	53	66	70	774
66	67	52	57	49	33	40	32	27	38	49	45	555
199	173	185	197	172	161	190	201	172	168	175	180	2,173
158	143	171	151	157	148	172	169	124	128	126	158	1,805
9	12	10	12	12	10	8	8	5	10	7	7	110
.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	I
64	40	70	59	50	56	69	66	51	49	54	56	684
87	77	91	84	69	85	97	94	65	64	73	80	966
196	192	179	188	197	153	173	178	160	165	163	191	2,135
4	2	6	4	4	4	10	8	4	2	5	2	55
6	5	10	13	9	11	13	24	16	16	6	9	138

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Mortality from the Principal Causes, With Ages of

Cause of Death	BOROUGH OF RICHMOND												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Total, all causes.....	150	109	139	118	114	122	151	162	110	123	109	137	1,544
1. Typhoid fever.....							1	1					2
2. Typhus fever.....													
3. Malarial fevers.....													
4. Smallpox.....													
5. Measles.....			1	1		1	2	2			1	4	12
6. Scarlet fever.....			2			1				1		1	6
7. Whooping cough.....		1							2		1		4
8. Diphtheria and croup....	2	3	1	2				3	1		3	1	17
9. Influenza.....		1					1					1	3
10. Asiatic cholera.....													
11. Cholera nostras.....							1					1	4
12. Other epidemic diseases..		1											
13. Tuberculosis pulmonalis..		10	16	12	18	12	2	18	12	12	13	8	145
14. Tuberculous meningitis..	12	1	1	1			4		3	1		2	14
15. Other forms of tuberculosis	1	1			2	1		2			3		11
16. Cancer, malignant tumors.	6	4	7	7	10	14	8	8	8	10	8	10	100
17. Meningitis, simple.....	1		1	1			3		1				7
17a. (Of which) cerebrospinal meningitis.....							3						3
18. Apoplexy and softening of brain.....	5	2	7	3	4		2	2	2	1		2	31
19. Organic heart diseases.....	28	24	26	15	16	16	15	13	7	15	11	29	215
20. Acute bronchitis.....	1	1				1						1	4
21. Chronic bronchitis.....		1											1
22. Pneumonia (excluding broncho-pneumonia)....	16	12	8	8	11	10	5	4	3	5	4	15	101
22a. Broncho-pneumonia.....	14	9	16	6	6	4	5	6	3	4	7	2	82
23. Other respiratory diseases.	3	1	2			2	1	1					10
24. Diseases of stomach (can- cer excepted).....		4	3	2			1	2	1	2			15
25. Diarrheal diseases (under 5 years).....			2	2	3	4	23	29	20	16	5	2	106
26. Appendicitis and typh- litis.....	1		3		3		2	1	1	1		1	13
27. Hernia and intestinal ob- struction.....	3	1	1	1		1			1		1	1	10
28. Cirrhosis of the liver.....	1		3	1		2	4	5			2	3	21
29. Bright's disease and acute nephritis.....	19	8	11	17	11	14	19	18	12	24	16	20	189
30. Diseases of women (not cancerous).....	1	*1		1	1		2		1	1			8
31. Puerperal septicæmia.....			1								1	1	3
32. Other puerperal diseases..	1		1	3	1	1			1	1	1	3	13
33. Congenital debility and malformations.....	8	3	5	8	4	9	15	14	5	11	9	7	98
34. Old age.....	1	1	1	2		2	5	1	1	1			15
35. Violent deaths (suicide ex- cepted).....	6	7	6	6	7	10	12	9	7	7	6	5	88
a. Effects of heat.....							2						2
b. Other accidents.....	5	7	6	6	7	9	9	9	7	7	6	5	83
c. Homicides.....	1					1	1						3
36. Suicides.....		1							1	1	2		5
37. Other causes.....	19	11	14	19	17	16	17	20	15	9	13	17	187
38. Causes not known or ill- defined.....								3	1				4
Under 1 year.....	17	8	15	13	8	22	36	51	24	27	17	18	256
1 year, under 2 years.....	1	3	3	3	2	2	11	9	8	5	3	3	53
Total under 5 years.....	20	17	21	20	16	27	53	65	34	36	27	26	362
65 years and over.....	53	34	42	37	32	37	41	30	24	29	29	50	438
70 years and over.....	38	23	28	27	23	24	33	24	20	20	23	39	322
Males.....	93	71	76	77	68	78	96	98	69	67	64	74	931
Females.....	57	38	63	41	46	44	55	64	41	56	45	63	613
Colored.....	4	2	2	2	4	4	2	4	1	2	3		30
Chinese.....													
Institutions.....	75	39	55	49	51	49	66	81	48	43	44	57	657
Tenements.....	8	6	8	11	8	8	18	9	12	12	12	13	125
Dwellings.....	60	57	69	49	52	55	60	65	40	66	48	60	681
Hotels, etc.....	1	1		2	1	1	2	2	3		1	2	16
Others.....	6	6	7	7	2	9	5	5	7	2	4	5	65

VITAL STATISTICS.

Decedents for Year Ending December 31, 1912

CITY OF NEW YORK												
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
6,675	6,545	7,029	6,787	6,359	5,352	5,932	5,780	5,149	5,640	5,466	6,294	73,008
42	33	25	20	18	31	42	67	78	66	45	32	499
1	1	1	1	1	1	1	3	5	5	1	2	20
33	66	90	133	130	78	55	28	9	7	13	29	671
42	66	100	112	81	59	37	22	9	19	24	44	615
20	12	23	17	37	21	35	33	34	23	13	19	287
105	128	129	122	104	89	77	51	52	62	93	115	1,125
35	45	49	37	16	6	4	3	4	11	19	40	269
36	59	59	62	44	33	29	21	18	14	16	26	417
775	837	891	822	758	657	651	655	566	633	628	718	8,591
49	76	80	108	94	63	69	49	66	53	44	38	789
45	42	47	50	70	50	42	43	49	53	62	48	601
327	322	341	339	346	313	340	338	325	341	352	387	4,071
29	31	44	37	34	41	39	32	26	15	21	24	373
10	14	25	20	16	20	33	17	11	8	11	11	196
156	120	110	94	91	64	77	64	74	50	69	84	1,053
1,014	860	879	764	666	660	627	577	582	700	707	854	8,890
107	78	88	86	70	38	29	24	32	50	65	65	732
13	21	13	19	16	11	5	6	7	4	16	20	151
635	673	673	520	520	320	215	204	188	343	392	635	5,318
483	461	543	531	542	342	268	225	208	306	326	426	4,661
39	40	52	45	39	41	38	31	29	44	29	52	479
37	30	44	39	38	25	35	25	33	57	36	33	432
134	116	180	179	190	226	771	925	695	422	192	119	4,149
44	41	64	62	57	63	75	59	52	35	40	45	637
61	46	45	55	60	45	56	46	47	48	45	39	593
88	53	81	76	76	66	75	88	55	93	84	91	926
474	497	501	586	449	430	455	419	374	487	496	556	5,724
23	17	28	22	25	18	33	14	17	18	18	20	253
20	15	19	24	17	12	10	20	13	8	7	7	172
48	48	47	52	35	34	34	42	36	38	43	47	504
371	341	394	347	402	341	436	438	403	414	354	335	4,576
63	55	52	57	50	40	32	34	29	51	41	35	539
318	284	305	341	329	325	443	353	295	296	346	325	3,960
293	247	275	311	317	301	75	6	1	273	322	310	82
25	37	30	30	12	24	332	326	272	273	322	310	3,579
62	66	76	70	72	69	55	61	55	66	62	88	802
940	961	957	953	876	737	734	773	677	800	763	895	10,066
6	4	1	6	6	3	8	7	7	8	4	1	61
1,137	1,040	1,254	1,186	1,218	980	1,494	1,571	1,317	1,196	980	916	14,289
257	300	378	426	427	306	341	312	227	214	190	255	3,633
1,595	1,633	1,959	1,943	1,985	1,552	2,111	2,083	1,720	1,614	1,376	1,407	20,978
1,356	1,279	1,254	1,202	1,026	806	862	799	771	994	1,026	1,288	12,063
927	900	813	822	693	527	585	546	514	679	697	861	8,564
3,724	3,627	3,881	3,785	3,509	2,929	3,290	3,248	2,774	3,055	2,976	3,423	40,221
2,951	2,918	3,148	3,002	2,850	2,423	2,642	2,532	2,375	2,585	2,490	2,871	32,787
229	240	255	215	228	179	218	196	170	197	189	181	2,497
10	4	9	8	3	9	10	9	3	12	7	5	89
2,434	2,417	2,653	2,632	2,427	2,179	2,410	2,349	1,976	2,265	2,087	2,345	28,174
2,871	2,832	3,026	2,869	2,688	2,150	2,408	2,406	2,159	2,272	2,259	2,702	30,645
1,134	1,107	1,147	1,073	1,018	820	877	799	828	890	933	1,061	11,687
84	65	91	61	53	38	45	47	36	55	55	60	690
149	124	112	152	175	165	192	178	149	158	132	126	1,812

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Males by Age, and Cause of Death,

Cause of Death		Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
I. General Diseases.										
1. Typhoid fever.....	499	315			1	2		2	5	10
2. Typhus fever.....										
3. Relapsing fever.....						1	2		3	
4. Malarial fever.....	20	15								
5. Smallpox.....	2	1	1						1	
6. Measles.....	671	361	112	137	55	25	13	342	15	
7. Scarlet fever.....	615	334	18	67	59	41	39	224	76	
8. Whooping cough.....	287	132	78	34	8	4	4	128	4	
9. Diphtheria and croup.....	1,125	585	73	106	106	74	47	466	93	
10. Influenza.....	269	124	11	4	4	1		20	1	
11. Miliary fever.....										
12. Asiatic cholera.....										
13. Cholera nostras.....										
14. Dysentery.....	50	25	3	2	2	1		8		
15. Plague.....										
16. Yellow fever.....										
17. Leprosy.....	1									
18. Erysipelas.....	343	199	81	6	1		1	89		
19. Other epidemic diseases.....	23	12	8	2	1			11	1	
20. Pyæmia, septicæmia.....	91	66	4	2		1	1	8		
21. Glanders.....	5	5								
22. Malignant pustule.....	1									
23. Hydrophobia.....	5	2								1
24. Tetanus, trismus.....	36	27	7					7	5	
25. Mycoses.....										
26. Pellagra.....	1	1								
27. Beriberi.....	1	1								
28. Tuberculosis of lungs.....	8,591	5,673	15	26	12	14	7	74	25	
29. Acute miliary tuberculosis.....	182	122	15	12	9	1	1	38	6	
30. Tuberculous meningitis.....	789	418	90	97	46	28	15	276	57	
31. Abdominal tuberculosis.....	195	106	20	12	8	3	4	47	6	
32. Pott's disease.....	75	44		3		3		6	8	
33. White swelling.....	37	21	1	2	1		2	6	2	
34. Tuberculosis of other organs.....	80	63	4	1	3	5		15	1	
35. General tuberculosis.....	32	18	5		1		1	7	1	
36. Rachitis.....	33	17	9	7	1			17		
37. Syphilis.....	422	253	126	1	1		1	129		
38a. Soft chancre.....	11	8								
38b. Gonococcic infection.....	32	7	6					6		
39. Cancers, etc., of the mouth.....	153	123								
40. Cancer of stomach, liver.....	1,608	801	1					1		
41. Cancer of intestines, rectum.....	608	279			1	1		2	1	
42. Cancer of female genital organs.....	580									
43. Cancer of the breast.....	359	4								
44. Cancer of the skin.....	66	39								
45. Cancer of other organs and unspecified.....	706	422	2	4	1	1	1	9	2	
46. Other tumors (except of female genital organs).....	27	11		1				1	1	
47. Acute articular rheumatism.....	222	98	1	1		3	5	10	14	
48. Chronic rheumatism and gout.....	68	29								
49. Scurvy.....	7	5	4	1				5		
50. Diabetes.....	870	362								
51. Exophthalmic goitre.....	48	3								
52. Addison's disease.....	11	5			2	1	1	9	6	
53. Leukæmia.....	108	71	1	4	2	1				
54. Anæmia, chlorosis.....	134	45	1	3	1	1	1	7		
55. Other general diseases.....	53	32	9	5	1		1	16		
56. Alcoholism, acute and chronic.....	570	454								
57. Lead poisoning.....	16	15								
58. Other chronic poisonings of occupation.....										
59. Other chronic poisonings.....	16	9								
II. Diseases of Nervous System and Organs of Sense.										
60. Encephalitis.....	33	19		1	1	1			5	1
61. Simple meningitis (of which).....	373	208	52	33	18	9	8	120	16	
61a. Cerebrospinal meningitis.....	196	108	18	22	10	6	7	63	13	
62. Locomotor ataxia.....	127	104								
63. Other diseases of spinal cord (of which).....	230	113	9	12	5	7	2	35	5	
63a. Acute anterior poliomyelitis.....	70	40	8	10	5	5	2	30	3	

VITAL STATISTICS.

NEW YORK.

for the Year Ending December 31, 1912.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and Over	Colored	Chinese	Japanese
13	38	41	35	42	42	37	18	13	9	6	4	2				5	1	
			3	1	3		1	1	1		1	1						
1	3		1	5	1	1	1				1					6		
16	8															3		
10	2	3	1		4	1	3	1		8	11	12	8	1	5	12		
3	1	3	2	4	7	4	9	15	10							4		
			1	2	1		2	2	2	2	2	2	1				1	
1	3	5	3	8	15	12	12	8	11	11	11	6	3		1	2		
1	7	3	3	6	7	8	6	6	4	2	4	1				3		
			1	1	1	1		1										
2		1	2	1	1	3	3	1	1							3		
					1													
25	232	497	646	745	909	801	623	466	265	190	100	47	21	6	1	297	29	6
3	5	12	14	7	8	8	6	2	3	5	2	1	2			19		
22	15	15	6	0	5	5	2	5							1	22		1
4	6	11	5	6	2	6	4	3	4	3	1					9		
4	4	5	4	2	2	2	3			2	1					5		
1	2	1	1	1	5	1		1								3		
2	5	5	7	5	5	3	5	1	3	2	4					2		
2				1	1	2	1	2	1							1		
	1	7	14	13	19	18	15	11	6	8	6	3	1	2		14	1	
	1		1	1	1	2			1									
1		2	1	3	7	6	12	9	19	16	19	17	7	2	2	3		
	1	4	7	8	31	57	91	111	112	139	104	81	33	16	5	9		1
	2	7	7	4	11	13	22	50	36	32	38	28	10	12	4	1		
							2					1	1					
1		1			2	2	3	2	2	7	2				2			
3	7	7	11	15	25	37	38	36	51	53	51	38	20	15	4	5	3	
18	8	5	4	3	4	5	8	3	2			1			1	2		
	2		3	1	1	3		3	4	2	3	1	2	1	1			
6	4	7	9	9	14	20	38	44	59	60	37	30	12	10	2	4	1	
			2							1								
	1	1			1		1	1										
8	5	4	2	3		8	4	9		3	4	3				1		
	3	1	1	1	1	4	7	8	1	3	3	1	1					
1	1	2						2	1	1		1						
		6	23	58	74	79	69	67	38	14	11	9	4	2		8		
			1		2	2	3	5	2									
			1		2	1					1		1			1		
10	8	5	1	1	1	1		1	2	1								
6	5	13	7	5	4	8	4	2	5	2	2	1			1	4	1	
	1	5	6	2	2	3	2	1			1					1		
2	2	2	2	4	3	10	10	15	18	11	18	9	4	1	1	2		
2	1	1		1	1	6	9	7	6	5	12	7		2		4		
									1									

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Males by Age, and Cause of Death, for

Cause of Death		Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
64.	Apoplexy, cerebral hæmorrhage.....	1,023	518	1	1				2	1
65.	Softening of brain.....	30	13							
66.	Paralysis, unspecified.....	60	23							
67.	General paresis.....	256	186							
68.	Other forms of insanity.....	80	41			1	1		2	
69.	Epilepsy.....	112	62		2		1	1	4	2
70.	Convulsions (not puerperal).....	2	2							
71.	Convulsions of infants.....	269	144	119	22	1	1	1	144	
72.	Chorea.....	5	8							
73a.	Hysteria.....	13	4							
73b.	Neuralgia and Neuritis.....	13	4							
74.	Other nervous diseases.....	142	80	9	5	5	4	2	25	4
75a.	Follicular conjunctivitis.....	3	3				1		1	1
75b.	Trachoma.....									
75c.	Other diseases of eye and appendages.....									
76.	Diseases of ear.....	187	126	35	8	3	5	3	54	7
III. Diseases of Circulatory System.										
77.	Pericarditis.....	47	21							2
78.	Acute endocarditis.....	625	335	4	5	4	2	3	18	15
79.	Organic heart diseases.....	8,890	4,501	10	3	5	3	9	30	54
80.	Angina pectoris.....	176	105							
81.	Diseases of arteries, aneurism, etc.....	2,104	1,082	1	1		1		3	
82.	Embolism, thrombosis.....	97	47	2					2	
83.	Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	37	21							1
84.	Diseases of lymphatics (lymphangitis, etc.).....	28	20	7	4	1			12	2
85.	Hæmorrhage.....	4	1							
IV. Diseases of Respiratory System.										
86.	Diseases of nasal fossæ.....	3	3	1					1	
87.	Diseases of the larynx.....	30	16	7	1				8	2
88.	Diseases of thyroid gland.....	17	6	1					1	1
89.	Acute bronchitis.....	732	378	260	43	11	7	3	333	6
90.	Chronic bronchitis.....	151	77	1	2		1		4	1
91.	Broncho-pneumonia.....	4,661	2,435	1,195	545	154	47	30	1,971	48
92.	Lobar pneumonia.....	5,318	3,084	307	219	101	31	28	686	54
93.	Pleurisy.....	233	144	16	19	14	4	1	54	1
94.	Congestion of lungs, pulmonary apoplexy..	49	32	2	1				3	1
95.	Gangrene of lung.....	4	3							
96.	Asthma.....	85	41	2	1				3	
97.	Pulmonary emphysema.....	23	11							
98.	Other diseases of respiratory system (tuber- culosis excepted).....	35	20							2
V. Diseases of Digestive System.										
99a.	Diseases of teeth and gums.....	27	16	3	1				4	2
99b.	Other diseases of mouth.....	4	3					1	1	
100.	Angina and other diseases of pharynx.....	88	56	14	5	1	1	3	24	3
101.	Diseases of œsophagus.....	6	3							
102.	Ulcer of the stomach.....	235	169							
103.	Other diseases of stomach (cancer excepted).....	197	104	33	6	1	2	2	44	
104.	Diarrhœa and enteritis (under two years).....	3,948	2,104	1,829	275				2,104	
105.	Diarrhœa and enteritis (two years and over) (Of which) due to alcoholism.....	550	270			68	22	14	104	13
106.	Ankylostomiasis.....	1								
107.	Intestinal parasites.....	5	3			1			1	
108.	Appendicitis and typhlitis.....	637	361	2	2	5	1	5	15	29
109.	Hernia, intestinal obstruction.....	593	294	67	2		5	2	78	7
110a.	Diseases of anus and stercoral fistulæ.....	27	12		1	1			2	
110b.	Other diseases of intestines.....	40	19	2			1	1	4	
111.	Acute yellow atrophy of liver.....	12	6			1			1	
112.	Hydatid tumor of liver.....	4	3							
113.	Cirrhosis of liver.....	926	593			1			1	
114.	Biliary calculi.....	140	44							
115.	Other diseases of liver.....	168	79	2		1			3	
116.	Diseases of spleen.....	5	3					1	1	
117.	Simple peritonitis (non-puerperal).....	29	14				2	1	3	
118.	Other diseases of digestive system (except tuberculosis and cancer).....	41	22							

VITAL STATISTICS.

NEW YORK

the Year Ending December 31, 1912.—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and Over	Colored	Chinese	Japanese
.....	I	4	6	10	15	21	36	45	60	84	75	73	43	18	24	9	I	.....
.....	.....	.....	.....	2	.....	I	2	I	2	3	I	I	3	.....	2	.....	I	.....
.....	4	3	1	19	32	34	27	29	17	11	7	1	4	.....	.....	8	I	.....
3	7	7	5	4	3	6	4	5	2	3	3	1	I	.....	.....	4	.....	.....
I	.....	I	.....	.....	.....	9	5	2	I	3	I	3	.....	.....	.....	8	.....	.....
.....																		
.....	.....	.....	.....	I	1	I	I	I	.....	I	.....	.....	.....	.....	.....	.....	.....	.....
4	3	I	6	3	5	9	5	5	2	3	2	3	.....	.....	.....	I	.....	.....
.....																		
4	8	14	9	4	5	2	5	6	I	4	2	I	.....	.....	.....	2	.....	.....
.....																		
I	I	.....	I	2	1	2	.....	2	4	.....	3	2	.....	.....	.....	2	9	.....
6	19	31	25	19	33	34	36	40	35	8	5	6	5	.....	.....	.....	.....	.....
59	95	112	163	243	305	357	487	460	514	501	447	306	163	106	122	1	2	.....
.....	I	.....	.....	5	8	5	15	15	17	7	8	6	I	I	I	.....	.....	.....
.....	.....	2	3	13	19	29	50	87	104	154	162	185	140	74	56	20	2	.....
.....	.....	I	I	I	2	2	3	3	3	8	11	3	I	5	2	.....	.....	.....
.....	I	2	.....	.....	5	3	.....	2	2	I	3	.....	.....	.....	.....	I	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	I	.....	.....	.....	.....	I	.....	.....	I	.....	2	.....	.....	.....	.....	I	.....	.....
.....	I	I	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....																		
6	6	1	13	10	16	27	28	39	32	47	58	43	39	20	23	97	2	.....
17	73	105	162	190	245	268	224	223	216	189	180	112	73	43	24	131	6	I
.....	6	.....	.....	5	6	6	12	12	4	10	7	2	2	2	.....	4	.....	.....
.....	.....	2	3	2	5	3	2	2	.....	3	3	2	2	2	.....	3	.....	.....
.....	.....	.....	.....	1	2	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	4	5	5	6	8	3	I	I	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	I	2	.....	4	.....	.....	.....	.....	.....	.....	.....
.....	I	.....	2	3	I	4	2	.....	3	2	.....	.....	.....	.....	.....	.....	.....	.....
.....																		
I	2	I	.....	2	.....	.....	I	2	I	.....	.....	.....	.....	.....	.....	.....	.....	.....
I	2	3	4	4	5	3	2	I	I	I	I	I	.....	.....	.....	2	.....	.....
I	I	8	9	17	20	23	21	24	16	12	10	3	2	2	.....	5	.....	.....
I	.....	.....	6	2	3	3	7	2	4	3	9	9	6	4	I	2	.....	.....
3	2	7	7	13	11	14	12	7	8	14	16	12	15	6	6	8	2	.....
.....																		
33	30	37	37	39	41	18	23	19	15	14	5	4	I	I	.....	I	2	.....
I	7	11	12	12	19	21	21	27	14	23	23	16	8	3	3	3	.....	.....
.....	.....	2	I	I	I	2	I	I	I	.....	.....	I	.....	.....	.....	.....	.....	.....
.....	.....	I	I	I	2	2	2	3	.....	I	.....	.....	I	I	.....	.....	.....	.....
.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	2	I	9	26	45	85	104	92	74	61	46	31	11	3	2	7	I	.....
I	I	4	5	6	5	10	7	I	8	3	7	5	2	I	.....	2	.....	.....
.....	I	I	I	I	3	I	2	I	I	.....	I	.....	.....	.....	.....	.....	.....	.....
.....	I	I	3	3	6	2	I	.....	I	2	2	.....	.....	.....	.....	.....	.....	.....

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Males by Age, and Cause of Death, for

Cause of Death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
VI. Diseases of Genito-Urinary System.									
119. Acute nephritis.....	550	293	25	10	7	6	7	55	8
120. Bright's disease.....	5,174	2,710	2	1	3	4	2	12	10
121. Chyluria.....									
122. Other diseases of the kidneys and appendages.....	120	62	2					2	1
123. Calculi of the urinary tract.....	44	31							
124. Diseases of bladder.....	56	43	1					1	
125. Diseases of urethra, urinary abscess, etc.....	24	20							
126. Diseases of the prostate.....	102	102							
127. Non-venereal diseases of male genital organs.....	13	13	9					9	
128. Uterine hæmorrhage (not puerperal).....	2								
129. Uterine tumor (not cancer).....	95								
130a. Metritis.....	23								
130b. Other diseases of uterus.....	8								
131. Ovarian cysts and tumors.....	20								
132. Salpingitis and other diseases of female genital organs.....	105								
133. Diseases of breast (not puerperal nor cancer).....	3	1							
VII. Puerperal Diseases.									
134. Accidents of pregnancy.....	150								
135. Puerperal hæmorrhage.....	80								
136. Other accidents of labor.....	79								
137. Puerperal septicæmia.....	172								
138. Puerperal albuminuria and convulsions.....	161								
139a. Puerperal phlegmasia alba dolens.....	22								
139b. Embolism and sudden death.....	7								
140a. Sequel of delivery.....	2								
140b. Puerperal insanity.....									
141. Puerperal diseases of breast.....	3								
VIII. Diseases of Skin and Cellular Tissue.									
142. Gangrene.....	44	24	1	1			1	3	
143. Carbuncle.....	20	23							
144. Phlegmon, acute abscess.....	83	52	8	1		1	1	11	2
145. Other diseases of skin and adnexa.....	45	27	12				1	13	
IX. Diseases of Locomotory System.									
146. Diseases of bones (non-tuberculous).....	148	89	10	7	4	1	3	25	6
147. Arthritis, other diseases of joints (except tuberculosis and rheumatism).....	11	8				1		1	
148. Amputation.....									
149. Other diseases of organs of locomotion.....	4	3	1	1				2	
X. Malformations.									
150. Congenital malformations.....	708	427	396	15	3	4	1	419	6
XI. Diseases of Infancy.									
151. Congenital debility, icterus and sclerema.....	3,868	2,105	2,101	4				2,105	
152. Other diseases peculiar to infancy.....	954	545	545					545	
152a. (Of which) injury during birth.....	348	214	214					214	
153. Neglect.....	7	6	6					6	
XII. Diseases of Old Age.									
154. Senile debility.....	539	194							
XIII. External Causes.									
155. Suicide by poison.....	112	73							
156. Suicide by asphyxia.....	312	213							
157. Suicide by hanging or strangulation.....	96	85							
158. Suicide by submersion.....	12	7							
159. Suicide by firearms.....	146	134							
160. Suicide by cutting instruments.....	53	48							
161. Suicide by precipitation from height.....	51	26							

VITAL STATISTICS.

NEW YORK.

the Year Ending December 31, 1912.—Continued.

[illegible]

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Males by Age, and Cause of Death, for

Cause of Death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
162. Suicide by crushing.....	19	15							
163. Suicide by other methods.....	1	1							
164. Poisoning by food.....	21	7							1
165a. Bites of venomous animals.....	4	2							1
165b. Other acute poisonings.....	57	24		3		1		4	
166. Conflagrations.....	77	38	1	2	1			4	3
167. Burns and scalds.....	461	207	11	28	44	30	17	130	23
168. Absorption of deleterious gases.....	358	214	14	1	1			16	2
169. Accidental submersion.....	453	416	2	1		4	3	10	26
170. Pistol and gunshot wounds.....	19	16							1
171. Cuts and stabs.....	10	10	1			1		2	2
172. Deaths by falls.....	996	702	2	14	20	12	12	60	42
173. Deaths in mines and quarries.....									
174. Deaths by machinery.....	80	77			1			1	1
175. Deaths by other crushing agencies, wagons, etc.....	713	596		5	14	13	22	54	80
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	21	18	1		1	1	1	4	
177a. Physical exhaustion.....									
177b. Hunger and thirst.....									
178. Excessive cold.....	12	10							
179. Effects of heat.....	82	48	6	1				7	1
180. Lightning.....	3	3							
181. Other electrical accidents.....	17	17					1	1	
182. Homicides by firearms.....	165	146	1					1	1
183. Homicides by cutting or piercing instruments.....	41	36	1					1	
184. Homicides by other means.....	93	65	16				1	17	4
185. Dislocation and fractures.....	110	86				1		1	4
186a. Criminal abortion.....	45								
186b. Foreign body in larynx.....	41	29	1		1	1		3	1
186c. Other external violence.....	81	62	7	2		2	3	14	4
XIV. Ill-defined or Not Specified Causes.....									
187. Organic lesions not defined.....	1								
188. Sudden death.....									
189. Ill-defined or disease not specified.....	60	34	8	18	4			30	
I.—General diseases.....	20,745	11,762	706	601	327	210	149	1,993	344
a. Tuberculous diseases.....	9,981	6,465	150	153	80	54	32	469	106
b. Cancer.....	4,071	1,668	3	4	2	2	1	12	3
II.—Diseases of nervous system and organs of sense.....	2,953	1,655	227	84	34	30	17	392	37
III.—Diseases of circulatory system.....	12,008	6,133	24	13	10	6	12	65	74
IV.—Diseases of respiratory system.....	11,341	6,250	1,801	831	280	90	62	3,064	116
V.—Diseases of digestive system.....	7,683	4,178	1,952	292	82	34	30	2,390	54
VI.—Diseases of genito-urinary system.....	6,339	3,275	39	11	10	10	9	79	19
VII.—Puerperal diseases.....	676								
VIII.—Diseases of skin and cellular tissue.....	201	126	21	2		1	3	27	2
IX.—Diseases of locomotory system.....	163	100	11	8	4	2	3	28	6
X.—Malformations.....	708	427	396	15	3	4	1	419	6
XI.—Diseases of infancy.....	4,820	2,656	2,052	4				2,656	
XII.—Diseases of old age.....	539	194							
XIII.—External causes.....	4,762	3,431	64	57	83	66	60	330	197
a. Suicide.....	802	602							
b. Homicide.....	299	247	18				1	19	5
c. Accident.....	3,661	2,582	46	57	83	66	59	311	192
XIV.—Causes ill-defined.....	61	34	8	18	4			30	
Total males.....	40,221	7,901	1,936	837	453	346	11,473	855	
Total females.....	32,787	6,388	1,697	714	409	297	9,505	799	
Total both sexes.....	73,008	14,289	3,633	1,551	862	643	20,978	1,654	

VITAL STATISTICS.

NEW YORK

the Year Ending December 31, 1912.—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and Over	Colored	Chinese	Japanese
.....	I	I	2	3	2	2	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	I	.....	.....	2	I	I	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
I	2	2	2	4	I	3	3	I	I	I	.....	.....	.....	.....	I	.....	.....	.....
.....	2	2	2	I	5	3	3	4	I	I	3	I	I	I	I	2	.....	.....
I	3	4	3	6	3	9	7	7	3	I	6	.....	.....	.....	.....	I	.....	.....
I	5	14	21	9	21	30	21	22	13	13	9	8	4	I	4	.....	I	I
27	27	43	22	33	51	53	45	33	25	12	3	3	.....	3	.....	10	.....	.....
I	2	2	.....	2	2	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22	19	34	43	71	78	59	68	56	39	41	31	16	8	8	7	15	2	.....
.....	7	6	20	6	8	8	8	5	5	2	.....	.....	.....	.....	.....	3	.....	.....
46	28	53	51	44	48	50	31	27	24	24	16	11	4	2	3	5	.....	.....
I	2	.....	.....	2	I	.....	.....	3	2	2	.....	.....	.....	.....	.....	.....	.....	.....
.....																		
.....	I	.....	.....	.....	I	I	2	I	.....	2	.....	.....	I	.....	.....	.....	.....	.....
I	.....	I	.....	6	7	5	3	6	3	I	3	2	.....	.....	I	.....	I	.....
.....																		
I	2	2	I	I	I	2	.....	2	.....	I	.....	.....	.....	.....	.....	.....	.....	.....
I	9	28	32	18	19	15	9	4	5	I	2	I	.....	.....	.....	11	14	.....
.....																		
I	2	7	11	8	5	12	7	10	4	8	2	I	3	I	.....	.....	.....	.....
2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	I	5	2	2	.....	2	4	5	.....	I	I	I	.....	.....	.....	.....	.....	.....
4	3	4	3	6	8	4	5	5	I	.....	I	.....	.....	.....	.....	5	.....	.....
.....																		
.....																		
.....	.....	I	.....	.....	I	.....	I	.....	.....	.....	.....	I	.....	.....	.....	3	.....	.....
144	369	659	824	967	1,222	1,152	1,013	894	652	575	424	293	134	70	33	453	37	8
59	271	546	683	776	937	828	644	481	276	202	108	48	23	6	2	358	29	7
5	10	21	26	30	76	115	168	208	220	247	214	172	75	47	19	18	3	1
24	34	50	43	60	77	109	109	123	117	133	126	103	65	26	27	42	3	.....
66	118	130	144	199	309	383	451	638	629	702	702	651	458	249	165	155	4	I
23	88	126	189	214	282	318	273	291	275	264	271	189	130	81	56	249	8	I
42	49	72	95	130	162	191	210	199	155	141	121	86	48	21	12	99	5	.....
15	30	62	95	130	179	258	269	367	361	357	345	316	208	121	64	103	6	2
.....																		
3	.....	5	.....	5	6	10	10	12	9	5	5	8	8	3	I	3	.....	.....
7	5	9	11	2	3	6	4	8	4	3	I	3	.....	.....	.....	2	.....	.....
I	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	106	.....	.....
112	128	263	305	294	343	327	301	261	191	149	102	21	39	54	59	61	23	I
.....																		
I	13	39	76	61	60	67	73	71	55	40	23	13	4	6	.....	4	3	.....
2	11	41	50	32	33	18	14	7	6	2	4	2	.....	I	.....	16	10	.....
109	104	183	179	201	250	242	214	183	120	107	75	44	23	17	18	42	4	.....
.....	.....	I	.....	.....	I	.....	I	.....	.....	.....	.....	I	.....	.....	.....	3	.....	.....
437	821	1,377	1,714	2,001	2,581	2,754	2,641	2,794	2,393	2,337	2,109	1,730	1,117	649	435	1,285	86	13
431	708	1,199	1,370	1,435	1,636	1,604	1,717	1,894	1,861	2,005	1,990	1,732	1,352	926	629	1,212	3	I
868	1,529	2,576	3,084	3,436	4,220	4,358	4,688	4,254	4,342	4,099	3,462	2,469	1,569	1,064	2,497	89	14	.....

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Females by Age, and Cause of Death,

Cause of Death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
I. General Diseases.									
1. Typhoid fever.....	184	1	1	1	2	2	7	16	
2. Typhus fever.....									
3. Relapsing fever.....									
4. Malarial fever.....	5								
5. Smallpox.....	1								
6. Measles.....	310	90	130	48	12	9	289	18	
7. Scarlet fever.....	281	13	47	44	48	19	171	79	
8. Whooping cough.....	155	73	42	20	8	2	145	8	
9. Diphtheria and croup.....	540	47	131	100	71	58	407	105	
10. Influenza.....	145	11	6	3			20	3	
11. Miliary fever.....									
12. Asiatic cholera.....									
13. Cholera nostras.....									
14. Dysentery.....	25	4		1	2		7	3	
15. Plague.....									
16. Yellow fever.....									
17. Leprosy.....	1								
18. Erysipelas.....	144	73	9				83	1	
19. Other epidemic diseases.....	11	4	3	2			9	1	
20. Pyæmia, septicæmia.....	25	7		1	1		9	1	
21. Glanders.....									
22. Malignant pustule.....	1								
23. Hydrophobia.....	3				1		1	1	
24. Tetanus, trismus.....	9	4					4	1	
25. Mycoses.....									
26. Pellagra.....									
27. Beriberi.....									
28. Tuberculosis of lungs.....	2,018	28	18	8	10	6	70	27	
29. Acute miliary tuberculosis.....	60	8	3	4	2	2	19	3	
30. Tuberculous meningitis.....	371	83	86	45	33	21	268	46	
31. Abdominal tuberculosis.....	89	19	5	1	2	2	29	6	
32. Pott's disease.....	31			1			1	7	
33. White swelling.....	16		1				1	4	
34. Tuberculosis of other organs.....	17	2		2			4	1	
35. General tuberculosis.....	14	1	1		1	1	4	1	
36. Rachitis.....	16	7	7	2			16		
37. Syphilis.....	169	91	5	2			98	1	
38a. Soft chancre.....	3	1					1		
38b. Gonococcic infection.....	25	14					14		
39. Cancers, etc., of the mouth.....	30								
40. Cancer of stomach, liver.....	807								
41. Cancer of intestines, rectum.....	329				1		1		
42. Cancer of female genital organs.....	580								
43. Cancer of the breast.....	346								
44. Cancer of the skin.....	27								
45. Cancer of other organs and unspecified.....	284		1		1	1	3	3	
46. Other tumors (except of female genital organs).....	16		1				1		
47. Acute articular rheumatism.....	124	1		2	5	2	10	26	
48. Chronic rheumatism and gout.....	39								
49. Scurvy.....	2	1	1				2		
50. Diabetes.....	508	2	1		2		5	3	
51. Exophthalmic goitre.....	45	1			1		2	1	
52. Addison's disease.....	6								
53. Leukæmia.....	37	1		1			2		
54. Anæmia, chlorosis.....	89	3				1	4		
55. Other general diseases.....	21	4	3				7	2	
56. Alcoholism, acute and chronic.....	116								
57. Lead poisoning.....	1								
58. Other chronic poisonings of occupation.....									
59. Other chronic poisonings.....	7								
II. Diseases of Nervous System and Organs of Sense.									
60. Encephalitis.....	14	2	1	1	1	1	6	1	
61. Simple meningitis (of which).....	165	40	35	14	6	11	106	10	
61a. Cerebrospinal meningitis.....	88	22	19	8	3	8	60	5	
62. Locomotor ataxia.....	23								
63. Other diseases of spinal cord (of which).....	115	6	8	8	2	4	28	7	
63a. Acute anterior poliomyelitis.....	30	4	6	8	1	4	23	6	

VITAL STATISTICS.

NEW YORK

for the Year Ending December 31, 1912.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and Over	Colored	Chinese	Japanese
13	25	29	18	17	9	18	8	6	6	4	3	2	3			9		
3			1						1							1		
		2	1													8		
17	5		5	2	1		1									6		
1								1								6		
15	1	3	4	1		1	2	8			1					12		
1	5	5	9	1	5	5	8	8	8	18	8	16	12	10	3	4		
		1	1	1			1	1	1	2	2	1	1	3		1		
		1														1		
	2	5	4	4	5	6	3	7	8	5	2	3	2	3	1	2		
4		2	2	1	1	1	1	2		1	1					1		
	1																	
	1				1													
			2		1	1												
66	249	444	444	404	381	263	182	136	101	64	45	22	14	3	3	199		
3	14	1	4	7	3	4					1	1				5		
12	11	9	7	7	3		3	2	1	1	1					12		
4	7	9	8	3	3	7	3	2	2	3	2	1				11		
7	6	1	1	5							2							
3	1	1	2	2		1	1	2	1							2		
2	1	1	1	1	2	1						1						
	1	2	1	2	1	1				1						1		
1	4	7	7	8	9	8	10	10	2		3	1				13		
	2		1	1	1											1		
		6				5	4	3		1	6	1						
		3			2	2							3					
	1	3	14	23	61	90	113	129	125	97	73	40	26	10		1		
	2		9	17	28	33	38	46	49	32	39	15	9			7		
			14	59	74	89	107	60	61	39	22	11	0			4		
	1		5	31	26	35	44	55	42	39	33	22	13	11		20		
				1		1		2	4	3	2	1	3	3		8		
4	7	6	5	10	9	31	27	41	40	35	23	21	10	5		15		
24	10	11	5	1	1	2	1	2	2		2	3		1				
1			6	6	5	6	5	5	2	1	1	3		2		4		
				1	1		4		1	5	6	3	6	4	3			
6	5	4	5	11	16	23	32	57	78	92	73	47	29	16	6	9		
	5	4	6	3	1	3	1	2	2	5	2		1	1				
				1		2	2		1	1								
3	2		2	3	6	7	3	2	3	1	1		2	2				
	2	6	4	7	6		7	14	7	8	9	5	1	1		2		
		3		1				1	1	1	1							
		3	15	17	18	21	15	12	7	3	4					3		
	1		2	1	1	1					1					1		
2			1		1		1	1	5	1	2				1			
9	4	7	5	2	1	7	5	1	1	1						1		
6	2	2	4	1		4	2		3	3	3		1					
					5	8	6	8	12	5	11	6	4	2				
3	2	2	3	3												2		
			1													1		

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Females by Age, and Cause of Death,

Cause of Death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
64. Apoplexy, cerebral hæmorrhage.....	505	2						2	1
65. Softening of brain.....	17	1						1	
66. Paralysis, unspecified.....	34								
67. General paresis.....	70								
68. Other forms of insanity.....	39								
69. Epilepsy.....	50								
70. Convulsions (not puerperal).....									
71. Convulsions of infants.....	125	102	18	3	1	1	125		
72. Chorea.....	5		1					1	1
73a. Hysteria.....	4								
73b. Neuralgia and neuritis.....	9								
74. Other nervous diseases.....	62	2	6	2	2	1	13		2
75a. Follicular conjunctivitis.....									
75b. Trachoma.....									
75c. Other diseases of eye and appendages.....									
76. Diseases of ear.....	61	10	5	1	2		4	22	9
III. Diseases of Circulatory System.									
77. Pericarditis.....	26	2						2	
78. Acute endocarditis.....	290	3	3		5		4	19	28
79. Organic heart disease.....	4,389	4	2	6	6		7	25	65
80. Angina pectoris.....	71								
81. Diseases of arteries, aneurism, etc.....	1,022								
82. Embolism, thrombosis.....	50								
83. Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	16								1
84. Diseases of lymphatics (lymphangitis, etc.).....	8	4	2					6	
85. Hæmorrhage.....	3								
IV. Diseases of Respiratory System.									
86. Diseases of nasal fosse.....									
87. Diseases of the larynx.....	14	4	4	1	2		1	12	1
88. Diseases of thyroid gland.....	11								
89. Acute bronchitis.....	354	215	39	13	1	1		269	8
90. Chronic bronchitis.....	74	1		1				2	1
91. Broncho-pneumonia.....	2,226	961	482	148	46	27		1,664	40
92. Lobar pneumonia.....	2,234	247	181	70	30	30		558	44
93. Pleurisy.....	89	12	8	10		2		32	5
94. Congestion of lungs, pulmonary apoplexy..	17	2	1					3	1
95. Gangrene of lung.....	1								
96. Asthma.....	44					1		1	
97. Pulmonary emphysema.....	12								
98. Other diseases of respiratory system (tuber- culosis excepted).....	15			1				1	
V. Diseases of Digestive System.									
99a. Diseases of teeth and gums.....	11	2		1				3	1
99b. Other diseases of mouth.....	1								
100. Angina and other diseases of pharynx.....	32	8	3	2	1			14	2
101. Diseases of œsophagus.....	3								1
102. Ulcer of the stomach.....	66	1	1					2	
103. Other diseases of stomach (cancer excepted).....	93	20	6	4	3			33	1
104. Diarrhœa and enteritis (under two years).....	1,844	1,563	281					1,844	
105. Diarrhœa and enteritis (two years and over) (Of which) due to alcoholism.....	280			65	22	10		97	10
106. Ankylostomiasis.....	1								
107. Intestinal parasites.....	2								
108. Appendicitis and typhlitis.....	276			4	3	5			26
109. Hernia, intestinal obstruction.....	299	23	2		1			26	5
110a. Diseases of anus and stercoral fistulæ.....	15								
110b. Other diseases of intestines.....	21	1	1	1	1			4	1
111. Acute yellow atrophy of liver.....	6	1		1				2	
112. Hydatid tumor of liver.....	1								
113. Cirrhosis of liver.....	333								
114. Biliary calculi.....	96							2	
115. Other diseases of liver.....	89	2	3		1			5	
116. Diseases of spleen.....	2	1						1	
117. Simple peritonitis (non-puerperal).....	15					1		1	4
118. Other diseases of digestive system (except tuberculosis and cancer).....	19		1					1	1

for the Year Ending December 31, 1912.—Continued.

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ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Females by Age, and Cause of Death,

Cause of Death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
VI. Diseases of Genito-Urinary System.									
119. Acute nephritis.....	257	14	12	4	7	6	43	10	8
120. Bright's disease.....	2,404	3	2	1	2	1	9		
121. Chyluria.....									
122. Other diseases of the kidneys and appen- dages.....	58	1	1		1	1	4		
123. Calculi of the urinary tract.....	13								1
124. Diseases of bladder.....	13								
125. Diseases of urethra, urinary abscess, etc...	4								
126. Diseases of the prostate.....	4								
127. Non-venereal diseases of male genital organs									
128. Uterine hæmorrhage (not puerperal).....	2								
129. Uterine tumor (not cancer).....	95								
130a. Metritis.....	23								
130b. Other diseases of uterus.....	8								
131. Ovarian cysts and tumors.....	20								
132. Salpingitis and other diseases of female geni- tal organs.....	105								
133. Diseases of breast (not puerperal nor cancer)	2	1						1	
VII. Puerperal Diseases.									
134. Accidents of pregnancy.....	150								
135. Puerperal hæmorrhage.....	80								
136. Other accidents of labor.....	79								
137. Puerperal septicæmia.....	172								
138. Puerperal albuminuria and convulsions.....	161								
139a. Puerperal phlegmasia alba dolens.....	22								
139b. Puerperal embolism and sudden death.....	7								
140a. Sequel of delivery.....	2								
140b. Puerperal insanity.....									
141. Puerperal diseases of breast.....	3								
VIII. Diseases of Skin and Cellular Tissue.									
142. Gangrene.....	20			1	1	1	3		
143. Carbuncle.....	6								
144. Phlegmon, acute abscess.....	31	12	1				13	2	
145. Other diseases of skin and adnexa.....	18	8	1				9		
IX. Diseases of Locomotory System.									
146. Diseases of bones (non-tuberculous).....	59	10	4	2	2	3	21	7	
147. Arthritis, other diseases of joints (except tuberculosis and rheumatism).....	3	1		1			2		
148. Amputation.....									
149. Other diseases of organs of locomotion.....	1								
X. Malformations.									
150. Congenital malformations.....	281	268	8	3		1	280	1	
XI. Diseases of Infancy.									
151. Congenital debility, icterus and sclerema...	1,763	1,760	3				1,763		
152. Other diseases peculiar to infancy.....	409	407	2				409		
152a. (Of which) injury during birth.....	134	132	2				134		
153. Neglect.....	1	1					1		
XII. Diseases of Old Age.									
154. Senile debility.....	345								
XIII. External Causes.									
155. Suicide by poison.....	39								
156. Suicide by asphyxia.....	99								
157. Suicide by hanging or strangulation.....	11								
158. Suicide by submersion.....	5								
159. Suicide by firearms.....	12								
160. Suicide by cutting instruments.....	5								
161. Suicide by precipitation from height.....	25								

VITAL STATISTICS.

NEW YORK

for the Year Ending December 31, 1912.—Continued.

[illegible]

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Deaths of Females by Age, and Cause of Death,

Cause of death	Total Both Sexes	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
162. Suicide by crushing.....		4							
163. Suicide by other methods.....									
164. Poisoning by food.....	14					2		2	4
165a. Bites of venomous animals.....	2			1				1	
165b. Other acute poisonings.....	33			3	1	3	2	9	1
166. Conflagrations.....	39	1		2	1	3	1	8	4
167. Burns and scalds.....	254	9		18	25	25	30	107	42
168. Absorption of deleterious gases.....	144	16		3	1	2	1	23	5
169. Accidental submersion.....	37	3			1			4	2
170. Pistol and gunshot wounds.....	3								1
171. Cuts and stabs.....									
172. Deaths by falls.....	294	7		14	12	9	3	45	27
173. Deaths in mines and quarries.....									
174. Deaths by machinery.....	3								1
175. Deaths by other crushing agencies, wagons, etc.....	117			2	6	7	10	25	25
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	3	1		1				2	
177a. Physical exhaustion.....									
177b. Hunger and thirst.....									
178. Excessive cold.....	2			1				1	
179. Effects of heat.....	34	7					1	8	
180. Lightning.....									
181. Other electrical accidents.....									
182. Homicides by firearms.....	19	1				1		2	2
183. Homicides by cutting or piercing instru- ments.....	5	1						1	
184. Homicides by other means.....	28	11			1			12	7
185. Dislocation and fractures.....	24	1		1		1		3	1
186a. Criminal abortion.....	45								
186b. Foreign body in larynx.....	12	4		1		1		6	1
186c. Other external violence.....	19	4		1				5	1
XIV. Ill-defined or Not Specified Causes.									
187. Organic lesions not defined.....	1								
188. Sudden death.....									
189. Ill-defined or disease not specified.....	26			19	3	2		24	1
I.—General diseases.....	8,983	594	502	289	203	126	1,714	368	
a. Tuberculous diseases.....	3,516	141	114	61	48	32	396	95	
b. Cancer.....	2,403		1		2	1	4	3	
II.—Diseases of nervous system and organs of sense.....	1,298	165	74	29	14	22	304	31	
III.—Diseases of circulatory system.....	5,875	13	7	10	11	11	52	94	
IV.—Diseases of respiratory system.....	5,091	1,442	715	244	79	62	2,542	100	
V.—Diseases of digestive system.....	3,505	1,622	298	79	33	15	2,047	52	
VI.—Diseases of genito-urinary system.....	3,064	19	15	5	10	8	57	19	
VII.—Puerperal diseases.....	676								
VIII.—Diseases of skin and cellular tissue.....	75	20	2	1	1	1	25	2	
IX.—Diseases of locomotory system.....	63	11	4	3	2	3	23	7	
X.—Malformations.....	281	268	8	3		1	280	1	
XI.—Diseases of infancy.....	2,173	2,168	5				2,173		
XII.—Diseases of old age.....	345								
XIII.—External causes.....	1,331	66	48	48	54	48	264	124	
a. Suicide.....	200								
b. Homicide.....	52	13		1	1		15	9	
c. Accident.....	1,079	53	48	47	53	48	249	115	
XIV.—Causes ill-defined.....	27		19	3	2		24	1	
Total females.....	32,787	6,388	1,697	714	409	297	9,505	799	

VITAL STATISTICS.

NEW YORK

for the Year Ending December 31, 1912.—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and Over	Colored	Chinese	Japanese
.....	.....	I	2	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	I	2	.....	.....	.....	2	.....	I	I	.....	I	.....	.....	.....	.....	.....	.....	.....
.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	I	3	I	4	10	2	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	7	8	3	10	10	9	5	7	I	10	5	I	I	2	2	.....	.....	.....
I	3	9	8	5	8	11	7	16	7	6	10	5	11	5	2	3	.....	.....
.....	5	6	2	4	6	I	3	I	I	.....	.....	2	.....	.....	.....	.....	.....	.....
2	4	6	12	13	13	14	16	19	16	11	20	26	22	16	12	6	.....	.....
.....	.....	I	.....	.....	.....	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....
5	4	I	2	I	7	7	7	4	5	5	7	7	3	I	I	2	.....	.....
.....	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	I	.....	.....	2	.....	.....	4	6	I	2	I	3	2	I	3	2	.....	.....
I	4	5	I	.....	3	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	I	.....	.....
I	.....	.....	I	I	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	I	.....	2	3	I	.....	.....	.....	.....	.....	I	I	.....	.....	.....	.....	.....
I	.....	.....	I	.....	.....	.....	I	.....	2	3	I	.....	4	2	3	I	.....	.....
.....	4	14	11	8	2	3	3	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....
.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	I	.....	.....
I	2	.....	I	2	2	2	.....	I	.....	.....	I	I	.....	.....	.....	3	.....	.....
.....																		
I	.....	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
190	372	577	603	600	618	616	591	636	555	531	403	289	167	111	42	380	.....	.....
97	290	468	468	430	393	276	190	142	105	69	51	26	14	3	3	230	.....	.....
4	11	15	36	82	136	235	289	359	321	313	232	179	95	65	24	61	.....	.....
23	18	26	34	35	48	59	66	87	99	83	116	94	98	46	31	36	.....	.....
108	117	121	154	192	288	295	390	454	543	637	684	660	496	357	233	171	.....	.....
40	56	98	107	135	144	157	164	211	213	245	257	218	188	131	85	212	.....	.....
25	36	58	70	82	128	125	144	144	112	134	105	93	83	41	26	108	2	.....
15	24	78	133	140	195	238	280	278	284	322	333	273	203	126	66	132	.....	.....
.....	33	147	176	165	118	32	4	I	.....	.....	.....	.....	.....	.....	.....	27	.....	.....
I	2	2	2	4	I	I	5	6	I	I	6	4	8	.....	I	3	.....	.....
4	3	5	2	3	I	I	6	4	2	I	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	.....	.....
.....																		
24	47	87	89	79	95	78	67	73	51	8	29	45	79	121	8	.....	.....	.....
.....																		
.....	10	26	37	23	19	23	19	13	14	3	9	3	I	.....	.....	.....	.....	.....
4	4	6	2	I	6	I	.....	I	I	.....	.....	I	I	.....	.....	.....	.....	.....
20	33	55	50	55	70	54	48	59	36	40	48	52	45	27	23	32	.....	.....
.....																		
I	.....	.....	.....	.....	.....	I	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
431	708	1,199	1,370	1,435	1,636	1,604	1,717	1,894	1,861	2,005	1,990	1,732	1,352	920	629	1,212	3	.....

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Total Deaths by

BOROUGH OF

	All Ages	Under 1 Year	1	2	3	4	Total Under 5	5
Total males.....	20,473	4,233	1,033	429	231	187	6,113	401
Total females.....	16,075	3,442	852	374	210	131	5,009	372
Total both sexes.....	36,548	7,675	1,885	803	441	318	11,122	773

BOROUGH OF

Total males.....	3,900	631	169	72	37	28	937	89
Total females.....	3,044	490	140	57	40	33	760	83
Total both sexes.....	6,944	1,121	309	129	77	61	1,697	172

BOROUGH OF

Total males.....	12,744	2,465	613	285	156	105	3,624	289
Total females.....	11,250	1,988	594	241	129	106	3,058	280
Total both sexes.....	23,994	4,453	1,207	526	285	211	6,682	569

BOROUGH OF

Total males.....	2,173	430	91	36	23	17	597	54
Total females.....	1,805	354	88	35	21	20	518	45
Total both sexes.....	3,978	784	179	71	44	37	1,115	99

BOROUGH OF

Total males.....	931	142	30	15	6	9	202	22
Total females.....	613	114	23	7	9	7	160	19
Total both sexes.....	1,544	256	53	22	15	16	362	41

CITY OF

Total males.....	40,221	7,901	1,936	837	453	346	11,473	855
Total females.....	32,787	6,388	1,697	714	409	297	9,505	799
Total both sexes.....	73,008	14,289	3,633	1,551	862	643	20,978	1,654

VITAL STATISTICS.

Age-groups, Year 1912.

MANHATTAN.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	5 and Over	Colored	Chinese	Japanese
187 177	380 357	711 548	889 709	1,042 708	1,386 831	1,383 854	1,369 863	1,475 929	1,241 876	1,202 942	1,004 912	818 762	446 502	248 393	178 271	876 752	75 1	7
364	737	1,259	1,598	1,750	2,217	2,237	2,232	2,404	2,117	2,144	1,916	1,580	1,008	641	449	1,628	76	7

THE BRONX.

52 62	108 79	153 159	231 170	226 162	283 147	327 141	259 148	248 163	213 173	227 211	199 173	152 154	104 134	53 85	39 40	81 87	1	2
114	187	312	401	388	430	468	407	411	386	438	372	306	238	138	79	168	1	2

BROOKLYN.

161 164	275 218	410 415	474 418	601 472	748 557	847 517	814 572	857 662	759 649	729 702	719 757	585 648	437 539	258 369	159 253	251 397	9 2	4 1
325	493	825	892	1,073	1,305	1,362	1,386	1,519	1,408	1,431	1,476	1,233	976	627	412	561	11	5

QUEENS.

27 22	45 46	79 57	91 54	92 71	116 76	141 78	151 99	155 106	126 127	113 118	120 99	105 115	73 83	52 50	36 41	54 56	1 ....	.... ....
49	91	136	145	163	192	219	250	261	253	231	219	220	156	102	77	110	1	....

RICHMOND.

10 6	13 8	21 20	29 19	40 22	51 25	58 14	48 35	59 34	54 36	66 32	67 49	70 53	57 34	38 23	23 24	20 10	.... ....	.... ....
16	21	44	48	62	76	72	83	93	90	98	116	123	91	61	47	30	....	....

NEW YORK.

437 431	821 708	1,377 1,199	1,714 1,370	2,001 1,435	2,584 1,636	2,754 1,604	2,641 1,717	2,794 1,894	2,393 1,861	2,337 2,005	2,109 1,990	1,730 1,732	1,117 1,352	649 920	435 629	1,285 1,212	86 3	13 1
868	1,529	2,576	3,084	3,436	4,220	4,358	4,358	4,688	2,254	4,342	4,099	3,462	2,469	1,569	1,064	2,497	89	14

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths of Immigrants at Ellis Island Hospital, Year 1912.

Causes of Death.	Total.	Male.	Female.	White.	Colored.	Under 1 Yr.	1-4 Yrs.	5-14 Yrs.	15-34 Yrs.	35-54 Yrs.	55-74 Yrs.	75 and Over
Typhoid fever.....	2	1	1	2	.....	.....	.....	.....	1	1	.....	.....
Typhus fever.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Malaria.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles.....	41	24	17	41	.....	8	30	3	.....	.....	.....	.....
Scarlet fever.....	16	10	6	16	.....	1	10	5	.....	.....	.....	.....
Whooping-cough.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diphtheria and croup.....	5	4	1	5	.....	.....	3	2	.....	.....	.....	.....
Tuberculosis (all forms).....	5	4	1	5	.....	2	1	.....	.....	1	1	.....
Pneumonia, 91 and 92.....	20	14	6	20	.....	6	6	1	5	2	.....	.....
Other acute infectious diseases..	9	6	3	8	1	1	1	1	5	1	.....	.....
All other causes.....	18	11	7	18	.....	4	1	2	8	3	.....	.....

Pulmonary Tuberculosis and Cancer Deaths, 15 Years and Over, Sex, Age and Civil Condition and Death Rate Per 100,000 of Population, Single, Married, etc., at Those Ages.

Pulmonary Tuberculosis.

Ages.	Males.										Females.													
	Single.		Married.		Widowed.		Divorced.		Unknown.		Total.		Single.		Married.		Widowed.		Divorced.		Unknown.		Total.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
15 to 24 yrs.	665	146.0	60	120.7	1	214.1	.....	.....	3	.....	729	143.8	460	106.1	226	174.2	9	353.0	.....	.....	1	.....	693	122.3
25 to 44 yrs.	1,467	544.6	1,431	233.5	178	1148.5	8	413.1	17	.....	3,103	344.4	330	172.7	987	163.1	173	358.1	1	25.8	1	.....	1,492	175.6
45 yrs. and over.	554	1196.2	816	249.5	329	637.0	3	226.6	17	.....	1,719	402.7	79	174.6	254	108.7	232	155.5	2	151.3	3	.....	570	132.7
Total 15 yrs. and over	2,686	347.5	2,307	232.8	508	749.6	11	331.5	37	.....	5,549	301.4	869	129.6	1,467	151.3	411	206.1	3	53.0	5	.....	2,755	149.2

Cancer.

15 to 24 yrs.	29	6.4	2	4.0							31	6.1	19	4.4	7	5.4								26	4.6
25 to 44 yrs.	62	23.0	172	28.1	12	77.4	1	51.6	.....	.....	247	27.4	72	37.7	348	57.5	64	132.5	2	51.5	3	.....	489	57.6	
45 yrs. and over.	151	326.0	917	280.4	297	575.0	1	75.5	4	.....	1,370	320.9	203	448.7	812	347.5	852	571.0	3	226.9	7	.....	1,877	436.9	
Total 15 yrs. and over	242	31.3	1,091	110.1	309	456.0	2	60.3	4	.....	1,648	89.5	294	43.8	1,167	120.4	916	459.3	5	88.4	10	.....	2,392	129.5	

All Causes.

15 yrs. and over	8,306	1074.0	14,190	1432.9	4,357	6429.0	52		552		27,466	1491.5	3,839	572.7	9,780	1008.7	8,249	4136.0	50		124		22,002	1191.0
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ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population, Deaths and Death Rates per 1,000 Population, City of New York, Principal Causes, Years 1898 to 1912, Inclusive.

Year.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.
Population.....	3,272,418	3,356,722	3,446,012	3,554,079	3,665,825	3,781,423	3,901,023	4,025,742	4,166,556	4,314,237	4,469,248	4,632,978	4,803,261	4,983,385	5,173,004
Total deaths.....	66,294	65,343	70,872	70,720	68,112	67,864	78,060	73,714	76,203	79,205	73,072	74,105	76,742	75,423	73,008
Death rate.....	20.26	19.47	20.57	19.90	18.58	17.95	20.01	18.31	18.29	18.36	16.35	16.00	15.98	15.13	14.11
Total deaths under 5 years.....	25,499	23,801	25,836	24,256	24,388	22,044	25,542	24,539	25,777	25,794	24,141	24,519	24,268	22,242	20,978
Rate on general population.....	7.79	7.09	7.49	6.82	6.65	5.83	6.55	6.09	6.19	5.98	5.40	5.29	5.05	4.46	4.05
Rate population under 5 years.....	67.2	61.1	64.6	59.3	58.4	51.6	58.5	54.9	56.2	54.9	50.0	49.5	47.7	42.1	38.3
Typhoid fever.....	676	546	718	727	764	653	661	649	639	740	536	564	558	545	499
Rate.....	.21	.16	.21	.20	.21	.17	.17	.19	.16	.15	.12	.12	.12	.11	.10
Typhus fever.....	.0003	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rate.....	.0003	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Malarial fever.....	250	167	216	195	125	90	91	53	64	69	34	40	27	38	20
Rate.....	.08	.05	.06	.05	.03	.02	.02	.01	.02	.02	.01	.01	.01	.01	.004
Smallpox.....	18	12	410	310	310	51	7	.002	.001	.002	.0002	.0004	.0010	.0006	.0004
Measles.....	651	587	816	449	710	508	895	520	1,145	728	972	997	785	659	671
Rate.....	.20	.17	.24	.13	.19	.13	.23	.13	.27	.17	.22	.22	.16	.13	.13
Scarlet fever.....	703	533	465	1,162	940	734	851	473	491	796	1,333	786	953	741	615
Rate.....	.21	.16	.13	.33	.26	.19	.22	.12	.12	.19	.29	.17	.20	.15	.12
Diphtheria and croup.....	1,778	1,024	2,277	2,068	2,015	2,190	2,048	1,544	1,898	1,740	1,758	1,714	1,715	1,281	1,125
Rate.....	.54	.31	.66	.58	.55	.58	.53	.38	.46	.40	.39	.37	.36	.26	.22
Whooping-cough.....	716	514	584	289	606	324	197	408	367	393	188	401	294	384	287
Rate.....	.22	.15	.17	.08	.17	.09	.05	.10	.09	.09	.04	.09	.06	.08	.05
Cerebro-spinal meningitis.....	357	394	306	267	265	271	1,403	2,025	812	642	351	326	294	203	196
Rate.....	.11	.12	.09	.08	.07	.07	.36	.50	.19	.15	.08	.07	.06	.04	.04
Pulmonary tuberculosis.....	7,724	8,015	8,154	8,135	7,569	8,020	8,512	8,335	8,955	8,999	8,869	8,643	8,692	8,790	8,591
Rate.....	2.36	2.39	2.37	2.29	2.07	2.12	2.18	2.12	2.16	2.09	1.98	1.87	1.81	1.76	1.66
Other tuberculous diseases.....	1,541	1,562	1,476	1,255	1,314	1,284	1,257	1,123	1,239	1,263	1,288	1,268	1,382	1,460	1,390
Rate.....	.47	.47	.43	.35	.36	.34	.32	.28	.30	.29	.29	.27	.29	.29	.27
Bronchitis.....	1,923	1,988	1,904	1,683	1,898	1,560	1,735	1,417	1,319	1,048	819	1,051	928	877	732
Rate.....	.59	.59	.57	.47	.52	.41	.44	.35	.32	.24	.18	.23	.19	.18	.14
Pneumonia.....	8,094	8,531	10,482	9,168	9,377	9,714	12,369	9,783	10,868	11,806	9,508	10,614	10,510	10,055	9,979
Rate.....	2.47	2.54	3.04	2.58	2.56	2.57	3.17	2.43	2.61	2.74	2.13	2.29	2.10	2.02	1.93
Diarrhoea under 5 years.....	6,570	5,569	5,978	6,071	5,190	4,443	5,647	6,136	6,016	6,611	6,190	5,380	5,918	4,696	4,149
Rate on whole population.....	2.01	1.66	1.73	1.71	1.42	1.17	1.45	1.52	1.44	1.53	1.38	1.16	1.23	.94	.80
Rate on population under 5 years.....	17.3	14.3	15.0	14.9	12.4	10.4	12.9	13.7	13.1	14.1	12.8	10.9	11.6	8.7	7.6
Cancer.....	2,066	2,136	2,291	2,463	2,450	2,668	2,709	2,875	3,005	3,227	3,243	3,488	3,710	3,873	4,071
Rate.....	.61	.64	.66	.69	.63	.69	.69	.71	.72	.75	.73	.76	.77	.78	.79
Brig's and nephritis.....	4,686	5,113	5,352	5,500	5,461	5,636	6,220	5,944	6,108	5,685	5,049	5,522	5,638	5,107	5,724
Rate.....	1.43	1.52	1.55	1.55	1.49	1.49	1.59	1.48	1.47	1.32	1.13	1.19	1.17	1.02	1.11
Hear disease.....	3,847	3,751	3,858	4,026	4,859	4,771	4,996	5,140	5,557	7,237	7,130	6,854	6,870	7,965	8,800
Rate.....	1.18	1.12	1.12	1.13	1.33	1.26	1.28	1.28	1.33	1.68	1.59	1.48	1.43	1.60	1.74
Pueral diseases.....	598	558	711	648	642	637	727	815	763	783	698	719	701	738	676
Rate.....	.17	.17	.21	.18	.18	.17	.19	.20	.18	.18	.16	.16	.16	.15	.13
Violence.....	3,677	3,385	3,913	4,036	3,752	4,068	5,191	4,476	4,741	4,911	4,737	4,403	4,638	5,183	4,762
Rate.....	1.12	1.01	1.14	1.30	1.02	1.08	1.33	1.11	1.14	1.14	1.06	.95	1.00	1.04	.92

VITAL STATISTICS.

1912

Deaths from All Causes and Diarrhæal Diseases under One Year of Age, by Weeks.

CITY OF NEW YORK.

Week Ending.	All Causes.							Diarrhœal Diseases.						
	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.
January 6.....	105	34	21	35	31	26	252	1	9	3	9	3	2	27
January 13.....	100	24	30	59	26	19	258	2	22	7	12	1	3	27
January 20.....	115	32	24	49	28	32	280	7	6	5	5	2	1	26
January 27.....	107	31	11	32	26	26	233	4	3	1	1	5	5	25
February 3.....	117	18	22	47	35	24	263	6	3	3	6	4	2	24
February 10.....	112	21	29	31	25	23	241	6	2	6	6	2	2	24
February 17.....	111	24	17	44	38	16	250	7	5	3	9	1	1	30
February 24.....	106	18	21	47	33	33	258	3	2	3	6	6	1	23
March 2.....	116	29	12	40	43	33	273	1	4	1	7	7	3	21
March 9.....	101	20	25	37	48	28	259	8	10	4	9	8	2	41
March 16.....	106	30	23	57	44	30	290	7	2	7	18	8	2	44
March 23.....	117	38	21	49	51	38	314	3	8	2	11	2	2	28
March 30.....	110	35	17	36	35	28	261	6	7	4	6	.....	.....	23
April 6.....	102	27	20	46	62	35	292	5	3	5	15	9	1	38
April 13.....	116	26	21	41	49	43	296	4	7	8	9	3	6	37
April 20.....	82	23	14	59	31	39	248	4	7	3	11	2	3	30
April 27.....	87	29	12	39	45	49	261	11	6	2	10	3	4	36
May 4.....	107	35	16	46	45	47	296	4	7	3	6	9	3	32
May 11.....	103	29	17	40	45	43	277	3	5	4	7	4	4	26
May 18.....	97	21	24	40	45	50	277	3	2	5	3	1	8	22
May 25.....	97	27	22	39	36	58	279	5	7	8	12	9	8	49
June 1.....	95	25	13	42	31	45	251	5	4	6	15	3	4	37
June 8.....	92	18	16	40	35	48	249	3	5	4	14	7	5	38
June 15.....	102	21	9	31	33	31	227	6	4	1	8	5	7	31
June 22.....	111	18	13	22	24	27	215	7	4	7	6	7	4	35
June 29.....	80	19	13	30	37	43	222	6	6	6	13	12	9	52
July 6.....	104	23	20	42	45	33	267	4	5	7	23	26	7	72
July 13.....	89	37	17	61	55	50	309	7	12	11	37	34	20	121
July 20.....	93	23	20	80	59	53	328	10	13	9	48	43	31	154
July 27.....	97	30	29	74	80	41	351	9	12	20	42	56	25	164
August 3.....	104	27	33	90	79	63	396	10	10	16	62	55	45	198
August 10.....	92	34	30	95	58	45	354	10	16	21	61	38	29	175
August 17.....	101	23	38	82	64	47	355	5	8	24	55	46	31	169
August 24.....	82	30	38	91	63	52	356	10	9	22	60	41	27	169
August 31.....	104	33	37	72	78	45	369	4	17	19	44	49	25	158
September 7.....	92	38	22	72	61	37	322	11	12	9	51	34	23	140
September 14.....	93	35	28	68	49	41	314	7	13	15	47	30	22	140
September 21.....	88	35	30	63	56	42	314	11	15	17	32	33	21	129
September 28.....	87	38	24	62	53	44	308	6	14	13	41	29	30	133
October 5.....	70	33	38	52	34	44	271	2	10	19	39	20	22	112
October 12.....	103	33	28	51	45	29	289	8	15	14	20	22	14	93
October 19.....	105	30	24	49	40	25	273	6	10	12	18	17	6	72
October 26.....	100	31	21	44	35	30	261	6	6	12	18	18	10	70
November 2.....	84	31	24	40	24	20	223	2	16	8	18	6	8	58
November 9.....	68	31	27	50	18	7	231	2	7	7	23	8	2	49
November 16.....	102	27	23	33	21	22	228	5	6	9	12	4	3	39
November 23.....	116	27	25	35	22	21	246	3	7	8	6	5	4	33
November 30.....	85	26	22	33	23	18	207	2	5	3	7	3	4	24
December 7.....	116	23	15	36	24	23	237	5	1	4	9	3	1	20
December 14.....	77	27	12	24	20	17	177	2	6	3	6	2	1	19
December 21.....	92	16	20	29	26	21	204	3	1	1	7	4	3	19
December 28.....	97	17	16	33	19	17	199	4	2	6	4	5	1	22
Total, 52 weeks..	5,165	1,430	1,144	2,539	2,132	1,801	14,211	281	378	421	1,030	762	507	3,379

Actual Number of Deaths from Zymotic and Certain Other Preventable Diseases, by Wards.

BOROUGH OF MANHATTAN.

Wards.	Area in Acres.	Population by Census of 1910.	Number of Persons to the Acre.	Typhoid Fever.	Malarial Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria and Croup.	Pulmonary Tuberculosis.	Cerebro-spinal Meningitis.	Pneumonia.	Broncho-pneumonia.	Diarrheal Diseases.	All Causes.	Deaths of Children Under 5 Years.
First.....	134.0	9,750	63.0	1	.....	.....	7	3	2	2	53	3	10	24	23	351	87
Second.....	81.0	533	11.5	.....	.....	.....	.....	.....	.....	1	14	.....	4	1	2	57	7
Third.....	1,915	20.2	20.2	.....	.....	.....	.....	1	.....	.....	15	.....	.....	.....	.....	52	5
Fourth.....	95.0	21,330	257.1	2	.....	.....	7	.....	1	13	97	1	56	3	31	574	227
Fifth.....	168.0	5,666	33.7	8	1	.....	.....	2	.....	.....	9	.....	8	3	2	153	11
Sixth.....	186.0	19,070	258.7	1	.....	.....	17	.....	.....	.....	97	2	50	40	27	472	145
Seventh.....	198.0	102,161	155.0	3	2	.....	17	15	1	5	74	2	72	90	54	1,088	434
Eighth.....	183.0	33,182	181.4	0	1	.....	6	2	3	5	12	2	45	40	39	589	192
Ninth.....	322.0	64,909	201.6	7	.....	.....	10	.....	5	20	155	6	102	73	73	1,305	320
Tenth.....	16.0	60,438	604.9	0	.....	.....	13	8	3	16	89	6	62	86	48	849	296
Eleventh.....	196.0	130,548	666.7	3	.....	.....	13	10	6	67	81	6	77	86	78	1,037	425
Twelfth (E. C.).....	1,058.0	405,130	261.3	23	.....	.....	54	30	22	91	360	10	274	333	293	3,451	1,454
Twelfth (W. N.).....	1,738.0	332,092	191.4	23	.....	.....	53	18	15	33	387	4	281	191	138	3,728	810
Thirteenth.....	2,201.0	105,532	73.0	18	.....	.....	0	10	6	21	101	4	153	59	99	2,307	347
Fourteenth.....	106.0	165,494	234.0	8	.....	.....	13	14	8	13	150	5	110	74	50	1,637	385
Fifteenth.....	38.51	604.1	72.1	1	.....	.....	12	4	2	15	73	2	65	61	34	735	304
Sixteenth.....	184.5	399.3	184.5	1	.....	.....	4	3	3	6	38	1	38	36	47	590	292
Seventeenth.....	349.0	50,854	145.5	3	.....	.....	24	7	10	10	119	7	125	104	37	395	110
Eighteenth.....	436.0	55,920	166.2	8	.....	.....	24	40	3	37	168	7	91	164	12	1,810	700
Nineteenth.....	1,481.0	172,334	550.6	6	1	.....	42	41	5	33	158	7	91	165	173	1,881	584
Twentieth.....	292,980	187.7	139.6	23	.....	.....	47	40	39	99	847	26	330	442	498	6,201	2,320
Twenty-first.....	444.0	73,368	167.7	14	.....	.....	6	13	2	28	285	4	114	63	85	1,441	343
Twenty-second.....	62,345	157.7	157.7	5	1	.....	17	23	5	18	186	3	110	182	175	1,570	530
Total.....	15,790.0	209,154	136.8	26	7	.....	306	314	164	529	4,068	128	2,645	2,453	2,046	36,548	11,122

BOROUGH OF THE BRONX.

Twenty-third.....	4,267.0	268,880	63.0	18	1	.....	97	41	5	97	1,073	17	285	179	197	4,285	1,055
Twenty-fourth.....	22,255.8	162,002	7.3	8	.....	.....	12	13	7	28	507	4	184	141	124	2,659	612
Total.....	26,522.8	430,942	16.2	26	1	.....	109	54	12	125	1,580	21	469	320	321	6,944	1,667

BOROUGH OF BROOKLYN.

Wards.	Area in Acres.	Population by Census of 1910.	Number of Persons to the Acre.	Typhoid Fever.	Malarial Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria and Croup.	Pulmonary Tuberculosis.	Cerebro-spinal Meningitis.	Pneumonia.	Broncho-pneumonia.	Diarrheal Diseases.	All Causes.	Deaths of Children Under 5 Years.
First.....	233.0	21,831	93.8	2	.....	.....	.....	1	.....	5	52	1	24	10	10	389	53
Second.....	107.7	6,894	70.6	.....	.....	.....	.....	.....	1	.....	31	.....	15	15	10	162	42
Third.....	161.4	15,010	98.6	2	.....	.....	.....	.....	.....	5	32	1	24	9	17	324	61
Fourth.....	111.3	10,477	94.1	1	.....	.....	.....	2	.....	2	54	.....	27	14	10	280	53
Fifth.....	110.3	19,401	162.5	1	.....	.....	.....	.....	2	6	49	.....	37	59	58	422	192
Sixth.....	302.4	46,437	153.3	24	.....	.....	.....	1	.....	11	119	2	57	84	49	864	233
Seventh.....	438.3	44,037	133.3	4	.....	.....	.....	4	.....	5	68	.....	52	40	27	675	158
Eighth.....	183.3	82,687	96.0	4	.....	.....	.....	.....	.....	.....	141	.....	93	96	108	1,319	432
Ninth.....	163.6	50,591	81.0	12	2	.....	.....	7	.....	17	74	3	61	42	49	816	179
Tenth.....	41,238	41.9	12	.....	.....	.....	.....	17	.....	16	98	2	68	70	69	826	270
Eleventh.....	242.7	21,689	85.7	0	.....	.....	.....	.....	3	6	53	1	42	35	33	462	138
Twelfth.....	663.1	20,262	44.1	3	.....	.....	.....	2	.....	3	81	.....	65	43	46	576	170
Thirteenth.....	283.3	30,001	110.7	0	.....	.....	.....	.....	1	4	37	1	29	28	31	432	135
Fourteenth.....	282.8	33,320	117.9	8	.....	.....	.....	4	.....	15	58	.....	46	71	93	581	286
Fifteenth.....	244.8	35,887	146.6	2	1	.....	.....	.....	6	8	55	1	44	64	66	571	253
Sixteenth.....	84.3	68,244	248.7	5	.....	.....	.....	.....	3	13	66	.....	62	64	68	690	266
Seventeenth.....	82.3	70,346	85.2	11	.....	.....	.....	15	.....	24	108	3	83	90	99	638	340
Eighteenth.....	73.3	35,768	40.9	3	1	.....	.....	.....	.....	21	64	2	32	53	63	555	228
Nineteenth.....	49.8	35,890	168.9	4	.....	.....	.....	6	.....	14	46	.....	44	27	41	566	143
Twentieth.....	48.4	27,463	59.5	6	.....	.....	.....	.....	1	3	31	.....	39	24	24	454	107
Twenty-first.....	48.2	78,771	163.3	6	.....	.....	.....	10	.....	15	89	1	68	54	66	921	262
Twenty-second.....	1,351.1	81,233	59.7	20	1	.....	.....	4	.....	21	115	2	97	71	60	1,225	266
Twenty-third.....	756.9	65,501	80.7	13	.....	.....	.....	14	.....	11	85	1	65	40	34	1,030	159
Twenty-fourth.....	1,788.9	88,566	67.2	7	2	.....	.....	13	.....	17	105	2	68	51	50	943	232
Twenty-fifth.....	1,507.8	63,597	112.2	0	.....	.....	.....	.....	.....	12	76	.....	66	41	38	909	176
Twenty-sixth.....	3,596.2	77,663	140.3	16	.....	.....	.....	.....	.....	5	157	3	143	122	113	1,801	611
Twenty-seventh.....	884.7	70,061	130.0	5	1	.....	.....	31	.....	5	84	.....	58	90	83	837	256
Twenty-eighth.....	884.4	77,481	87.0	14	.....	.....	.....	.....	.....	11	150	.....	91	59	70	1,456	258
Twenty-ninth.....	3,800.0	72,351	19.0	1	.....	.....	.....	15	.....	3	140	.....	79	35	60	1,182	258
Thirtieth.....	3,404.1	76,466	14.1	5	1	.....	.....	.....	.....	4	74	.....	74	55	75	943	282
Thirty-first.....	5,312.3	30,988	4.9	5	.....	.....	.....	1	.....	3	34	.....	43	11	39	472	114
Thirty-second.....	5,479.5	17,419	3.2	4	.....	.....	.....	2	.....	2	15	.....	15	17	21	261	69
Total.....	38,977.8	1,634,508	41.9	231	10	2	203	225	86	400	2,441	35	1,811	1,581	1,604	23,994	6,682

BOROUGH OF QUEENS.

Wards.	Area in Acres.	Population by Census of 1910.	Number of Persons to the Acre.	Typhoid Fever.	Malarial Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria and Croup.	Pulmonary Tuberculosis.	Cerebro-spinal Meningitis.	Pneumonia.	Broncho-pneumonia.	Diarrheal Diseases.	All Causes.	Deaths of Children Under 5 Years.
First.....	4,650	61,763	13.3	9	.....	.....	15	4	0	10	84	4	78	75	87	936	291
Second.....	14,700	105,219	7.2	7	2	.....	51	7	3	21	158	5	88	78	124	1,289	392
Third.....	22,000	37,171	1.7	4	.....	.....	3	1	0	7	31	.....	40	20	32	506	142
Fourth.....	36,600	67,412	1.8	2	.....	.....	6	1	5	14	78	.....	69	47	07	963	250
Fifth.....	3,770	12,476	3.3	5	.....	.....	.....	3	.....	2	0	.....	17	4	12	204	40
Total.....	84,720	284,041	3.5	48	2	.....	41	16	21	54	357	9	202	225	322	3,678	1,115

BOROUGH OF RICHMOND.

Wards.	Area in Acres.	Population by Census of 1910.	Number of Persons to the Acre.	Typhoid Fever.	Malarial Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-cough.	Diphtheria and Croup.	Pulmonary Tuberculosis.	Cerebro-spinal Meningitis.	Pneumonia.	Broncho-pneumonia.	Diarrheal Diseases.	All Causes.	Deaths of Children Under 5 Years.
First.....	3,340	27,201	8.1	1	.....	.....	1	3	2	8	82	.....	49	28	42	728	136
Second.....	4,130	16,871	4.1	1	.....	.....	4	1	.....	2	24	1	11	6	11	196	44
Third.....	10,050	19,812	2.0	.....	.....	.....	1	.....	1	4	20	1	24	25	27	315	81
Fourth.....	8,180	10,662	1.3	.....	.....	.....	1	2	.....	1	11	1	14	17	23	185	75
Fifth.....	10,900	11,423	1.0	.....	.....	.....	3	.....	1	2	8	.....	6	9	12	119	26
Total.....	36,600	85,969	2.3	2	.....	.....	12	6	4	17	145	3	101	82	115	1,544	362

Deaths According to Nativity of Deceased and Parents of Deceased.

Country.	Nativity of Deceased.				Nativity of Parents of Deceased.				
	Borough of				Borough of				City of New York.
	Man-hattan.	The Bronx.	Brook-lyn.	Queens.	Rich-mond.	Man-hattan.	The Bronx.	Brook-lyn.	
United States.....	21,519	4,983	15,080	2,554	969	6,285	1,279	5,599	1,031
Ireland.....	4,273	868	2,414	299	178	7,366	1,473	3,107	518
Germany.....	2,732	735	2,220	944	178	3,351	1,179	3,807	306
Italy.....	1,780	285	955	136	51	4,724	715	2,686	109
Russia.....	1,930	286	1,048	30	17	3,469	518	2,086	136
England.....	1,589	139	552	81	39	2,439	147	1,024	42
Austria-Hungary.....	1,425	263	324	68	23	2,484	346	627	54
Scotland.....	226	33	185	28	9	481	31	235	33
British America.....	210	47	155	20	11	134	24	115	0
Switzerland.....	96	24	57	17	7	108	22	58	10
France.....	178	25	68	10	9	257	27	81	5
Bohemia.....	167	24	8	20	1	257	25	0	10
Roumania.....	180	31	70	3	.....	288	42	101	1
Poland.....	53	19	70	17	.....	88	31	167	1
Syria.....	14	.....	17	2	2	21	.....	34	11
Sweden.....	163	42	260	17	16	194	62	24	.....
Norway.....	72	14	187	6	20	75	20	287	12
Denmark.....	36	15	60	7	3	55	13	55	23
Finland.....	61	11	32	1	4	109	18	41	6
Holland.....	40	5	25	5	2	73	18	35	1
Cuba.....	32	7	12	2	.....	40	8	15	1
Other West Indies.....	164	15	61	2	.....	259	18	85	.....
Belgium.....	24	3	7	1	2	31	2	20	1
Spain.....	25	2	16	.....	2	102	7	20	2
Greece.....	70	4	8	1	.....	73	2	7	1
China.....	75	1	7	1	.....	73	2	7	1
Australia.....	4	.....	2	.....	.....	.....	.....	.....	.....
Other foreign.....	121	29	55	4	6	148	32	52	3
Unknown.....	297	34	80	14	17	2,744	179	404	122
Mixed nationalities.....	.....	.....	.....	.....	.....	2,769	672	2,464	158
Total.....	36,548	6,944	23,994	3,978	1,544	36,548	6,944	23,994	1,544
									73,008

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Pulmonary Tuberculosis and Cancer.

Deaths and Death Rates per 100,000 Population According to Nationalities of Deceased and Parents of Deceased—Death Rates Calculated on Returns of U. S. Census, 1910.

CITY OF NEW YORK, YEAR 1912.

Country.	Nativity of Deceased.				Nativity of Parents of Deceased.			
	Pulmonary Tuberculosis.		Cancer.		Pulmonary Tuberculosis.		Cancer.	
	Deaths.	Death Rate.	Deaths.	Death Rate.	Deaths.	Death Rate.	Deaths.	Death Rate.
Austria-Hungary.....	347	130.2	186	69.8	380	95.3	195	48.9
China.....	29	628.4	3	65.0	27	585.0	3	65.0
Denmark.....	17	212.8	8	100.1	16	149.8	6	56.2
England.....	165	211.2	140	179.2	160	143.4	148	132.7
Finland.....	31	418.9	5	67.6	28	289.8	4	41.4
France.....	40	219.1	21	115.0	46	186.0	28	113.2
Germany.....	593	180.1	712	255.0	1,152	190.1	958	158.1
Greece.....	22	274.8	.....	.....	22	252.9	.....	.....
Ireland.....	1,057	418.6	618	244.8	2,515	447.1	936	166.4
Italy.....	409	120.1	179	52.6	540	101.5	187	35.1
Norway.....	66	296.7	18	80.9	76	240.9	20	63.4
Roumania.....	45	139.7	43	133.5	46	101.1	41	90.1
Russia.....	395	81.7	376	77.8	456	63.2	380	52.7
Scotland.....	58	251.1	36	155.9	71	200.3	52	146.7
Sweden.....	87	248.9	35	100.1	111	214.4	32	61.8
Switzerland.....	19	182.4	21	201.6	19	139.1	24	175.7
United States.....	5,021	177.2	1,530	54.0	1,595	157.4	648	64.0
Other foreign.....	268	440.1	136	223.3	.....	.....	.....	.....
Unknown.....	12	.....	4	.....	191	.....	71	.....
Other foreign and mixed foreign.....	.....	.....	.....	.....	557	267.1	195	93.5
Native mother and native father.....	.....	.....	.....	.....	583	155.6	143	38.2
Total.....	8,591	180.4	4,071	85.0	8,591	180.4	4,071	85.0

Deaths by Suicide in the Borough of Manhattan.

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		Total both Sexes.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Cuts and stabs.....	2	....	....	....	1	....	....	....	3	....	6	1	1	....	1	1	1	....	6	1	2	....	23	3	26
Drowning.....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	2	2	4
Gunshot.....	8	....	....	....	3	1	....	....	9	1	3	....	7	....	4	....	6	....	31	5	8	....	79	7	86
Hanging.....	2	1	....	....	1	....	....	....	11	....	2	....	1	....	8	....	6	1	9	3	5	....	45	5	50
Leaps.....	1	2	....	....	2	....	1	....	2	3	1	....	2	1	6	3	....	....	4	6	1	....	20	15	35
Railroads.....	....	2	....	....	1	....	....	....	....	....	....	....	....	....	2	1	1	....	4	....	1	....	9	3	12
Arsenic (Paris green).....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	2	2
Bichloride of mercury.....	....	1	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....	....	2	....	....	1	6	7
Carbolic acid.....	1	....	....	....	....	....	....	....	2	1	....	....	2	....	4	2	1	....	5	1	1	....	16	4	20
Cyanide of potassium.....	1	....	....	....	1	....	....	....	2	....	....	1	....	....	....	....	....	....	8	2	1	....	13	3	16
Opium (Morphine).....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1
Oxalic acid.....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	2
Other poisons.....	1	....	....	....	1	....	....	....	1	....	2	....	1	1	1	1	2	....	3	1	....	....	11	3	14
Unknown poison.....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	2	....	4	2	6
Illuminating gas.....	15	8	3	....	4	1	1	....	25	6	3	5	6	1	16	3	5	1	34	23	8	....	120	48	168
Total by sexes.....	33	15	3	....	14	2	2	....	57	12	17	8	19	6	42	12	23	2	107	45	29	1	346	103	449
Total both sexes.....	48		3		16		2		69		25		25		54		25		152		30		449		

**Deaths by Suicide in the City of New York.*

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		Total both Sexes.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Cuts and stabs.....	3				3				10	1	7	1	2		2	2	3		14	1	4		48	5	53
Drowning.....	2								1										3	3	1	1	7	5	12
Gunshot.....	14	1			6	1			23	2	4		9		7		10		51	8	10		134	12	146
Hanging.....	4	1			2				34	3	3	1	1		9	1	9	1	17	4	6		85	11	96
Leaps.....	1	4			3		1		2	4	2	1	2	1	7	6			7	9	1		26	25	51
Railroads.....		2			2			1			1				4	1	1		6		1		15	4	19
Arsenic (Paris green).....									2							1							2	2	4
Bichloride of mercury.....		2			1					1		2	1	2			1		1	3			4	10	14
Carbolic acid.....	2								4	2			2		5	4	2		7	3	1	1	23	10	33
Cyanide of potassium.....	1				2				3		1	1					1		9	2	1		18	3	21
Opium (Morphine).....																			1				1		1
Oxalic acid.....	1								1										1				3		3
Other poisons.....	1	1			2	2			2	1	5	1		2	2	2	2	6	2	2		20	11	31	
Unknown poison.....		1							1										1	1	2		4	3	7
Illuminating gas.....	19	9	3	1	11	2	2		47	21	5	7	9	1	27	8	12	2	68	45	9	3	212	99	311
Total by sexes.....	48	21	3	1	32	5	3	1	130	35	28	15	26	7	63	25	41	3	192	82	36	5	602	200	802
Total both sexes.....	69		4		37		4		165		43		33		88		44		274		41		802		

* The 802 suicides occurred in the boroughs as follows: Manhattan, 449; The Bronx, 82; Brooklyn, 214; Queens, 52; Richmond, 5.

VITAL STATISTICS.

Deaths by Accident and Negligence.

	Borough of					City of New York.
	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	
Fractures and Contusions:						
Crushed by machinery.....	16	2	10	2	.....	30
Crushed by elevators.....	44	2	4	.....	.....	50
Crushed by falling bodies.....	22	7	10	5	.....	44
Crushed by derricks, stones, etc.....	30	5	.....	1	.....	36
Others.....	33	4	13	3	.....	53
Not specified by coroners.....	65	3	23	.....	9	100
Falls:						
Down elevator shafts, holds of vessels, etc.....	65	6	29	11	4	115
Down stairs.....	98	13	50	7	2	170
From buildings.....	62	7	12	.....	.....	81
From fire escapes.....	40	3	10	.....	.....	53
From scaffolds, platforms, etc.....	23	1	9	3	1	37
From windows.....	71	14	41	1	.....	127
From wagons, cars, etc.....	24	7	32	5	4	72
On streets and sidewalks.....	51	1	12	.....	2	64
Others.....	114	13	66	11	2	200
Not specified by coroners.....	33	3	27	6	1	70
Street Vehicles:						
Run over by wagons, trucks, etc.....	109	18	42	23	2	194
Run over by automobiles.....	120	14	44	9	1	188
Others.....	15	.....	.....	1	.....	16
Railroads:						
Electric surface.....	55	13	36	6	1	111
Steam.....	10	22	1	18	5	56
Elevated.....	6	.....	6	.....	.....	12
Subways.....	11	4	1	.....	.....	16
Wounds:						
By firearms.....	11	4	3	1	.....	19
By cutting and piercing instruments...	5	1	3	.....	1	10
Burns and Scalds:						
By stoves.....	46	10	29	11	4	100
By lamps.....	3	.....	3	.....	.....	6
By fluids.....	60	10	47	4	.....	121
By playing with matches.....	11	10	20	.....	.....	41
By others.....	28	18	42	16	5	109
Not specified by coroners.....	61	6	15	.....	1	83
Conflagrations.....	54	.....	19	3	1	77
Horses:						
Kicked by.....	5	3	6	.....	.....	14
Injuries by other animals.....	4	.....	2	.....	.....	6
Electric current.....	6	3	5	3	.....	17
Drowning.....	227	30	125	45	26	453
Poison:						
By food.....	12	2	4	3	.....	21
By alcohol.....	2	.....	1	.....	.....	3
By bichloride of mercury.....	5	.....	5	.....	.....	10
By carbolic acid.....	6	1	4	2	.....	13
By cocaine.....	1	.....	.....	.....	.....	1
By opium (morphine).....	5	.....	2	.....	.....	7
By wood alcohol.....	3	.....	1	.....	.....	4
By other poisons.....	14	3	5	1	.....	23
Illuminating gas.....	148	15	123	20	6	312
Chloroform.....	4	1	.....	.....	.....	5
Coal gas.....	1	1	1	.....	.....	3
Other gas.....	25	2	6	2	1	36
Suffocation.....	25	1	7	.....	1	34
Criminal abortion.....	24	6	13	2	.....	45
Lightning.....	.....	2	.....	1	.....	3
Freezing.....	3	2	3	2	2	12
Sunstroke.....	33	8	35	4	2	82
Other external violence.....	46	4	35	2	3	90
Hydrophobia.....	2	.....	3	.....	.....	5
Tetanus.....	8	.....	13	4	.....	25

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

RECAPITULATION.

	Borough of					City of New York.
	Man- hattan.	The Bronx.	Brook- lyn.	Queens.	Rich- mond.	
Fractures and contusions.....	210	23	60	11	9	313
Falls.....	581	68	288	44	14	995
Street vehicles.....	244	32	86	33	3	398
Railroads.....	82	39	44	24	6	195
Wounds.....	16	5	6	1	1	29
Horses.....	9	3	8	.....	.....	20
Burns and scalds.....	209	54	156	31	10	460
Conflagrations.....	54	.....	19	3	1	77
Electric current.....	6	3	5	3	.....	17
Drowning.....	227	30	125	45	26	453
Neglect and exposure.....	3	4	3	3	2	15
Illuminating gas.....	148	15	123	20	6	312
Other gases.....	30	4	7	2	1	44
Poison.....	48	6	22	6	.....	82
Suffocation.....	25	1	7	.....	1	34
Criminal abortion.....	24	6	13	2	.....	45
Sunstroke.....	33	8	35	4	2	82
Other external violence.....	46	4	35	2	3	90
Tetanus.....	8	.....	13	4	.....	25
Hydrophobia.....	2	.....	3	.....	.....	5
Total deaths from accidents and negligence..	2,005	305	1,058	238	85	3,691

Births by Nativities of Parents.

Country.	Borough of								City of	
	Manhattan.				The Bronx.				Brooklyn.	
	Queens.		Richmond.		New York.		Total.		Total.	
	Nativity of Both Parents.	Nativity of Mother Only, Mixed Parentage.	Nativity of Both Parents.	Nativity of Mother Only, Mixed Parentage.	Nativity of Both Parents.	Nativity of Mother Only, Mixed Parentage.	Nativity of Both Parents.	Nativity of Mother Only, Mixed Parentage.	Nativity of Both Parents.	Nativity of Mother Only, Mixed Parentage.
Austria-Hungary.....	7,815	1,874	824	319	2,171	703	291	108	81	11,182
Bohemia.....	349	118	12	19	5	6	31	14	1	398
British America.....	474	157	12	33	69	109	14	28	1	570
England.....	223	475	54	119	176	363	43	59	21	517
France.....	112	120	1	22	6	26	8	10	2	129
Germany.....	1,020	588	333	248	813	466	375	224	55	2,596
Ireland.....	3,452	1,385	523	231	1,229	609	175	121	69	5,448
Italy.....	15,873	264	2,473	48	9,722	102	1,129	22	403	29,600
Russia and Poland.....	11,939	957	2,165	247	8,932	586	659	43	167	23,862
Scotland.....	95	139	45	34	97	108	22	27	4	263
Sweden.....	158	114	76	44	314	115	38	17	13	599
Switzerland.....	24	47	7	16	4	12	6	9	2	43
United States.....	12,036	4,169	4,007	1,293	13,179	3,488	3,625	777	945	33,792
Other foreign.....	1,664	571	313	158	1,599	473	84	43	67	3,727
Unknown.....	16	21	.....	.....	.....	2	.....	.....	1	17
Total.....	55,250	10,999	10,845	2,831	38,316	7,138	6,500	1,502	1,832	112,743
										22,912

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Report of Births for the Year

CITY OF

Month.	Total.	White.		Colored.		Chinese.		Native Parents.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	11,975	6,018	5,732	114	109	.....	2	1,488	1,401
February.....	11,092	5,492	5,409	91	98	2	.....	1,349	1,329
March.....	11,463	5,739	5,543	82	98	1	.....	1,414	1,386
April.....	11,056	5,514	5,339	104	95	2	2	1,421	1,364
May.....	10,271	5,246	4,808	106	106	1	4	1,418	1,237
June.....	10,829	5,439	5,163	110	114	2	1	1,409	1,328
July.....	11,930	5,963	5,743	112	109	.....	3	1,510	1,532
August.....	11,525	5,817	5,491	117	98	2	.....	1,490	1,420
September.....	10,951	5,496	5,282	93	80	.....	.....	1,405	1,394
October.....	11,464	5,808	5,454	104	97	1	.....	1,457	1,386*
November.....	10,894	5,524	5,189	107	74	.....	.....	1,386	1,296
December.....	12,205	6,113	5,893	105	93	.....	1	1,531	1,441
Total.....	135,655	68,169	65,046	1,245	1,171	11	13	17,278	16,514

Report of Births for the Year

BOROUGH OF

Month.	Total.	White.		Colored.		Chinese.		Native Parents.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	5,955	2,990	2,801	84	78	.....	2	554	502
February.....	5,593	2,767	2,684	66	75	1	.....	485	491
March.....	5,539	2,759	2,641	62	76	1	.....	504	526
April.....	5,393	2,675	2,579	69	67	2	1	499	485
May.....	5,097	2,545	2,391	81	75	1	4	495	445
June.....	5,223	2,610	2,459	78	73	2	1	495	445
July.....	5,670	2,816	2,701	78	73	.....	2	524	517
August.....	5,787	2,828	2,809	78	70	2	.....	525	543
September.....	5,209	2,637	2,464	61	47	.....	.....	475	478
October.....	5,507	2,786	2,583	68	70	.....	.....	489	481
November.....	5,254	2,607	2,519	71	57	.....	.....	484	491
December.....	6,022	3,004	2,873	82	62	.....	1	586	517
Total.....	66,249	33,024	31,504	878	823	9	11	6,115	5,921

VITAL STATISTICS.

Ending December 31, 1912.

NEW YORK.

Foreign Parents.		Mixed Parentage.		Unknown Parentage.		At- tended by Phy- sician.	At- tended by Mid- wives.	Appar- ently Illegiti- mate.	Twins.	Triplets.
M.	F.	M.	F.	M.	F.					
3,888	3,718	694	677	62	47	7,283	4,692	211	129	1
3,549	3,488	646	651	41	39	6,583	4,509	180	96	1
3,751	3,548	613	667	44	40	6,686	4,777	164	117	1
3,462	3,427	688	598	49	47	6,748	4,308	201	117	.....
3,282	3,090	615	548	38	43	6,391	3,880	185	102	.....
3,436	3,308	632	601	74	41	6,843	3,986	151	109	.....
3,787	3,657	748	649	30	17	7,367	4,563	152	90	3
3,749	3,528	663	593	34	48	7,063	4,462	184	103	3
3,501	3,292	657	639	26	37	6,728	4,223	136	117	.....
3,731	3,511	687	623	38	31	6,932	4,532	165	120	.....
3,524	3,344	690	586	31	37	6,695	4,199	157	118	.....
3,945	3,789	711	731	31	26	7,593	4,612	131	112	.....
43,605	41,700	8,044	7,563	498	453	82,912	52,743	2,017	1,330	9

Ending December 31, 1912.

MANHATTAN.

Foreign Parents.		Mixed Parentage.		Unknown Parentage.		At- tended by Phy- sician.	At- tended by Mid- wives.	Appar- ently Illegiti- mate.	Twins.	Triplets.
M.	F.	M.	F.	M.	F.					
2,179	2,067	284	270	57	42	3,729	2,226	171	67	.....
2,055	1,979	259	258	35	31	3,341	2,252	112	57	.....
2,030	1,903	250	251	38	37	3,291	2,248	132	60	1
1,926	1,893	277	231	44	38	3,324	2,069	151	60	.....
1,848	1,770	251	216	33	39	3,204	1,893	151	55	.....
1,891	1,817	239	231	65	40	3,421	1,802	123	55	.....
2,044	2,013	297	229	29	17	3,492	2,178	121	51	.....
2,096	2,050	256	243	31	43	3,563	2,224	144	62	3
1,941	1,773	259	228	23	32	3,209	2,000	97	46	.....
2,055	1,926	279	217	31	29	3,373	2,134	127	48	.....
1,902	1,824	261	229	31	32	3,273	1,981	118	51	.....
2,178	2,105	294	291	28	23	3,836	2,186	94	47	.....
24,145	23,120	3,206	2,894	445	403	41,056	25,193	1,541	659	4

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Marriages Reported During the Year

CITY OF

Month.	Total.	White.		Black.		Chinese.		Single.		Widowed.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January.....	4,306	4,210	4,210	95	95	1	1	3,980	3,988	299	272
February.....	4,501	4,404	4,407	97	94	.....	.....	4,132	4,165	336	282
March.....	3,436	3,376	3,376	60	60	.....	.....	3,143	3,186	260	204
April.....	3,493	3,401	3,404	92	89	.....	.....	3,196	3,215	268	233
May.....	3,804	3,707	3,708	97	96	.....	.....	3,494	3,517	286	236
June.....	5,447	5,353	5,353	94	94	.....	.....	5,046	5,067	368	328
July.....	3,817	3,696	3,699	121	118	.....	.....	3,487	3,506	291	267
August.....	3,719	3,597	3,597	122	122	.....	.....	3,364	3,387	324	276
September.....	4,089	3,985	3,989	102	100	2	.....	3,710	3,762	339	289
October.....	4,922	4,801	4,804	121	118	.....	.....	4,513	4,580	362	293
November.....	5,019	4,897	4,900	121	119	1	.....	4,580	4,606	385	353
December.....	5,150	5,030	5,035	118	115	2	.....	4,801	4,789	308	313
Total.....	51,703	50,457	50,482	1,240	1,220	6	1	47,446	47,768	3,826	3,346

Marriages Reported During the Year

BOROUGH OF

Date.	Total.	White.		Black.		Chinese.		Single.		Widowed.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January.....	2,717	2,648	2,648	68	68	1	1	2,524	2,519	177	164
February.....	2,721	2,657	2,660	64	61	.....	.....	2,500	2,511	205	170
March.....	2,246	2,207	2,207	39	39	.....	.....	2,557	2,086	164	127
April.....	2,107	2,029	2,032	78	75	.....	.....	1,954	1,959	137	127
May.....	2,487	2,420	2,421	67	66	.....	.....	2,298	2,308	168	142
June.....	3,208	3,143	3,143	65	65	.....	.....	2,965	2,981	221	191
July.....	2,184	2,111	2,113	73	71	.....	.....	1,989	1,984	168	165
August.....	2,420	2,325	2,325	95	95	.....	.....	2,218	2,201	183	173
September.....	2,396	2,330	2,333	65	63	1	.....	2,171	2,192	199	177
October.....	3,092	3,003	3,006	89	86	.....	.....	2,836	2,866	222	188
November.....	3,004	2,936	2,940	67	64	1	.....	2,747	2,757	218	204
December.....	3,198	3,111	3,115	85	83	2	.....	2,980	2,966	188	196
Total.....	31,780	30,920	30,943	855	836	5	1	29,239	29,321	2,250	2,024

VITAL STATISTICS.

Ending December 31, 1912.

NEW YORK.

Divorced.		Native.		Foreign.		Religious Marriages.				Civil Marriages.	
M.	F.	M.	F.	M.	F.	Cath- olic.	Protes- tant.	Jewish.	Ethical Culture.	Alder- manic.	Judicial.
27	46	1,468	1,683	2,838	2,623	1,161	940	1,496	.....	698	11
33	54	1,563	1,825	2,938	2,676	1,550	1,089	1,150	1	702	9
33	46	1,038	1,246	2,398	2,190	638	770	1,456	2	563	7
29	45	1,514	1,625	1,979	1,868	1,235	1,057	428	1	762	10
24	51	1,264	1,384	2,540	2,420	1,129	985	941	1	745	3
33	52	2,242	2,449	3,205	2,998	1,666	1,554	1,464	6	746	11
39	44	1,724	1,904	2,093	1,913	1,283	1,094	630	4	804	2
31	56	1,328	1,508	2,391	2,211	1,068	895	965	2	780	9
40	38	1,696	1,888	2,393	2,201	1,349	1,212	615	3	903	7
47	49	1,831	2,043	3,091	2,879	1,543	1,419	1,113	2	837	8
54	60	1,953	2,209	3,066	2,810	1,532	1,399	1,207	2	871	8
41	48	1,883	2,121	3,267	3,029	1,460	1,354	1,459	2	865	10
431	589	19,504	21,885	32,199	29,818	15,614	13,768	12,924	26	9,276	95

Ending December 31, 1912.

MANHATTAN.

Divorced.		Native.		Foreign.		Religious Marriages.				Civil Marriages.	
M.	F.	M.	F.	M.	F.	Cath- olic.	Protes- tant.	Jewish.	Ethical Culture.	Alder- manic.	Judicial.
16	34	865	973	1,852	1,744	622	495	1,016	.....	580	4
16	40	813	953	1,908	1,768	769	554	820	1	574	3
25	33	608	725	1,638	1,521	347	410	1,023	2	463	1
16	30	820	852	1,287	1,255	719	501	287	1	596	3
21	37	719	781	1,768	1,706	618	538	693	1	635	2
22	36	1,116	1,236	2,092	1,972	873	749	995	5	583	3
27	35	848	949	1,336	1,235	651	492	366	4	671	.....
19	46	765	856	1,655	1,564	624	430	703	2	656	5
26	27	855	951	1,541	1,445	692	624	340	3	734	3
34	38	1,004	1,100	2,088	1,992	816	722	850	2	699	3
39	43	1,021	1,161	1,983	1,843	760	756	764	.....	718	6
30	36	1,002	1,135	2,196	2,063	778	644	1,063	2	702	9
291	435	10,436	11,672	21,344	20,108	8,269	6,915	8,920	23	7,611	42

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

*City of New York Life Table.**Based on the Returns of the Federal Census of 1910 and Mortality Returns of 1909, 1910 and 1911.*

MALES.

Year of Life.	Standard Population.	Aggregate Years.	Expectation of Life.	Year of Life.	Standard Population.	Aggregate Years.	Expectation of Life.
	100,000	4,454,976	44.55	51	51,582	852,268	16.52
1	86,250	4,368,726	50.65	52	50,316	801,952	15.94
2	82,680	4,286,046	51.84	53	49,024	752,928	15.36
3	81,080	4,204,966	51.86	54	47,701	705,227	14.79
4	80,170	4,124,796	51.45	55	46,281	658,946	14.24
5	79,540	4,045,256	50.86	56	44,812	614,134	13.70
6	79,080	3,966,176	50.15	57	43,293	570,841	13.18
7	78,610	3,887,566	49.45	58	41,733	529,108	12.68
8	78,280	3,809,286	48.66	59	40,120	488,988	12.19
9	78,020	3,731,266	47.82	60	38,467	450,521	11.71
10	77,810	3,653,456	46.95	61	36,760	413,761	11.26
11	77,623	3,575,833	46.07	62	35,022	378,739	10.81
12	77,448	3,498,385	45.17	63	33,283	345,456	10.38
13	77,277	3,421,108	44.27	64	31,516	313,940	9.96
14	77,103	3,344,005	43.37	65	27,944	284,196	9.50
15	76,912	3,267,093	42.48	66	27,985	256,211	9.16
16	76,685	3,190,408	41.60	67	27,192	230,019	8.78
17	76,424	3,113,984	40.75	68	24,432	205,587	8.42
18	76,128	3,037,856	39.90	69	22,755	182,832	8.04
19	75,802	2,962,054	39.08	70	21,110	161,722	7.66
20	75,455	2,886,599	38.26	71	19,456	142,266	7.31
21	75,098	2,811,501	37.44	72	17,866	124,400	6.96
22	74,728	2,736,773	36.62	73	16,365	108,035	6.60
23	74,335	2,662,438	35.82	74	14,888	93,147	6.26
24	73,918	2,588,520	35.02	75	13,469	76,978	5.92
25	73,487	2,515,033	34.22	76	12,034	67,644	5.62
26	73,035	2,441,998	33.44	77	10,685	56,959	5.33
27	72,565	2,369,433	32.65	78	9,423	47,536	5.05
28	72,078	2,297,355	31.87	79	8,205	39,331	4.79
29	71,572	2,225,783	31.10	80	7,029	32,302	4.66
30	71,028	2,154,755	30.34	81	6,018	26,284	4.37
31	70,450	2,084,305	29.59	82	5,119	21,165	4.14
32	69,832	2,014,473	28.85	83	4,317	16,848	3.90
33	69,180	1,945,293	28.12	84	3,622	13,266	3.65
34	68,481	1,876,812	27.41	85	3,031	10,195	3.36
35	67,734	1,809,078	26.71	86	2,506	7,689	3.07
36	66,939	1,742,139	26.03	87	2,025	5,664	2.80
37	66,124	1,676,015	25.35	88	1,584	4,080	2.58
38	65,286	1,610,729	24.67	89	1,204	2,876	2.39
39	64,414	1,546,315	24.01	90	889	1,987	2.24
40	63,521	1,482,794	23.34	91	635	1,352	2.13
41	62,599	1,420,195	22.69	92	443	909	2.05
42	61,633	1,358,561	22.04	93	307	602	1.96
43	60,630	1,297,932	21.41	94	212	390	1.84
44	59,598	1,238,334	20.78	95	145	245	1.69
45	58,549	1,179,785	20.15	96	98	147	1.50
46	57,473	1,122,312	19.53	97	65	82	1.25
47	56,366	1,065,946	18.91	98	42	40	0.95
48	55,228	1,010,718	18.30	99	25	15	0.596
49	54,047	956,671	17.70	100	15	00	0.000
50	52,821	903,850	17.11				

VITAL STATISTICS.

City of New York Life Table.

Based upon the Returns of the Federal Census of 1910 and Mortality Returns of 1909, 1910 and 1911.

FEMALES.

Year of Life.	Standard Population.	Aggregate Years.	Expectation of Life.	Year of Life.	Standard Population.	Aggregate Years.	Expectation of Life.
	100,000	4,883,542	48.8	51	59,219	1,088,898	18.4
1	88,240	4,795,302	54.3	52	58,163	1,030,735	17.7
2	84,954	4,710,348	55.4	53	57,077	973,658	17.0
3	83,550	4,626,798	55.4	54	55,943	917,715	16.4
4	82,600	4,544,198	55.0	55	54,728	862,987	15.8
5	81,996	4,462,202	54.4	56	53,376	809,611	15.2
6	81,532	4,380,670	53.7	57	51,905	757,706	14.6
7	81,168	4,299,502	52.9	58	50,418	707,288	14.0
8	80,880	4,218,622	52.1	59	48,918	658,370	13.4
9	80,632	4,137,990	51.3	60	47,388	610,982	12.9
10	80,418	4,057,572	50.4	61	45,802	565,180	12.3
11	80,230	3,977,342	49.5	62	44,021	521,159	11.8
12	80,053	3,897,289	48.7	63	42,209	478,950	11.3
13	79,878	3,817,411	47.8	64	40,405	438,545	10.8
14	79,702	3,737,709	46.9	65	38,609	399,936	10.3
15	79,515	3,658,194	46.0	66	36,769	363,167	9.8
16	79,314	3,578,880	45.1	67	34,832	328,335	9.4
17	79,093	3,499,787	44.2	68	32,826	295,509	9.0
18	78,850	3,420,937	43.4	69	30,705	264,804	8.6
19	78,587	3,342,350	42.5	70	28,638	236,166	8.2
20	78,298	3,264,052	41.7	71	26,637	209,529	7.8
21	77,985	3,186,067	40.8	72	24,677	184,852	7.5
22	77,648	3,108,419	40.0	73	22,758	162,094	7.1
23	77,293	3,031,126	39.2	74	20,872	141,222	6.7
24	76,927	2,954,199	38.4	75	19,056	122,166	6.4
25	76,548	2,877,651	37.6	76	17,328	104,838	6.0
26	76,155	2,801,496	36.8	77	15,607	89,231	5.7
27	75,744	2,725,752	36.0	78	13,884	75,347	5.4
28	75,296	2,650,456	35.2	79	12,228	63,119	5.1
29	74,815	2,575,641	34.4	80	10,629	52,490	4.9
30	74,310	2,501,331	33.6	81	9,165	43,325	4.7
31	73,788	2,427,543	32.9	82	7,871	35,454	4.5
32	73,252	2,354,291	32.1	83	6,729	28,725	4.2
33	72,705	2,281,586	31.4	84	5,724	23,001	4.0
34	72,147	2,209,439	30.6	85	4,846	18,155	3.7
35	71,587	2,137,852	29.8	86	4,009	14,146	3.5
36	70,993	2,066,859	29.1	87	3,276	10,870	3.3
37	70,351	1,996,508	28.4	88	2,610	8,260	3.1
38	69,695	1,926,813	27.6	89	2,053	6,207	3.0
39	69,032	1,857,781	26.9	90	1,607	4,600	2.8
40	68,369	1,789,412	26.2	91	1,249	3,351	2.6
41	67,685	1,721,727	25.4	92	959	2,392	2.5
42	66,968	1,654,759	24.7	93	721	1,671	2.3
43	66,223	1,588,536	24.0	94	533	1,138	2.1
44	65,453	1,523,083	23.3	95	389	749	1.9
45	64,654	1,458,429	22.5	96	278	471	1.7
46	63,830	1,394,599	21.8	97	194	277	1.4
47	62,983	1,331,616	21.1	98	133	144	1.1
48	62,099	1,269,517	20.4	99	89	55	0.6
49	61,179	1,208,338	19.7	100	55	.....	.....
50	60,221	1,148,117	19.1				

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

American Table of Mortality.

Age.	Surviving.	Expectancy of Life.	Age.	Surviving.	Expectancy of Life.
10	100,000	48.7	53	66,797	18.8
11	99,251	48.1	54	65,706	18.1
12	98,505	47.4	55	64,563	17.4
13	97,762	46.8	56	63,364	16.7
14	97,022	46.2	57	62,104	16.0
15	96,285	45.5	58	60,779	15.4
16	95,550	44.9	59	59,385	14.7
17	94,818	44.2	60	57,917	14.1
18	94,089	43.5	61	56,371	13.5
19	93,362	42.9	62	54,743	12.9
20	92,637	42.2	63	53,030	12.3
21	91,914	41.5	64	51,230	11.7
22	91,192	40.9	65	49,341	11.1
23	90,471	40.2	66	47,361	10.5
24	89,751	39.5	67	45,291	10.0
25	89,032	38.8	68	43,133	9.5
26	88,314	38.1	69	40,890	9.0
27	87,596	37.4	70	38,569	8.5
28	86,878	36.7	71	36,178	8.0
29	86,160	36.0	72	33,730	7.5
30	85,441	35.3	73	31,243	7.1
31	84,721	34.6	74	28,738	6.7
32	84,000	33.9	75	26,237	6.3
33	83,277	33.2	76	23,761	5.9
34	82,551	32.5	77	21,330	5.5
35	81,822	31.8	78	18,961	5.1
36	81,090	31.1	79	16,670	4.7
37	80,353	30.3	80	14,474	4.4
38	79,611	29.6	81	12,383	4.0
39	78,862	28.9	82	10,419	3.7
40	78,106	28.2	83	8,603	3.4
41	77,341	27.5	84	6,955	3.1
42	76,567	26.7	85	5,485	2.8
43	75,782	26.0	86	4,193	2.5
44	74,985	25.3	87	3,079	2.2
45	74,173	24.5	88	2,146	1.9
46	73,345	23.8	89	1,402	1.7
47	72,497	23.1	90	847	1.4
48	71,627	22.4	91	462	1.2
49	70,731	21.6	92	216	1.0
50	69,804	20.9	93	79	0.8
51	68,842	20.2	94	21	0.6
52	67,841	19.5	95	3	0.5

VITAL STATISTICS.

Deaths in Institutions, Year Ending December 31, 1912.

BOROUGH OF MANHATTAN.

Babies' Hospital.....	411	New York City School and Hospital.....	137
Bellevue Hospital.....	3,185	New York Nursery and Child's Hospital.....	143
Beth Israel Hospital.....	203	Nursery and Childs' Hospital.....	11
City Hospital.....	448	New York Polyclinic Hospital.....	117
Columbus Hospital.....	58	Post-Graduate Hospital.....	416
Flower Hospital.....	260	Presbyterian Hospital.....	344
Foundling Hospital.....	1,053	Reception Hospital.....	95
French Hospital.....	102	Red Cross Hospital.....	50
German Hospital.....	272	Roosevelt Hospital.....	274
Gouverneur Hospital.....	495	St. Francis Home.....	55
Hahnemann Hospital.....	71	St. Gregory's Hospital.....	54
Hah Moriah Hospital.....	45	St. Luke's Hospital.....	401
Harlem Hospital.....	789	St. Mark's Hospital.....	44
Home for Aged (Little Sisters of Poor).....	118	St. Mary's Hospital.....	66
House of Relief.....	210	St. Vincent's Hospital.....	418
J. Hood Wright Hospital.....	170	Skin and Cancer Hospital.....	54
Lying-in Hospital.....	215	Sloane Hospital for Women.....	89
Manhattan State Hospital.....	542	Sydenham Hospital.....	92
Metropolitan Hospital.....	1,683	Washington Heights Hospital.....	60
Misericordia Hospital.....	192	Willard Parker Hospital.....	382
Montefiore Hospital.....	92	Workhouse Hospital.....	54
Mount Sinai Hospital.....	714	Other institutions.....	1,272
New York City Home and Hospital.....	685		
New York Hospital.....	450	Total.....	17,091

BOROUGH OF THE BRONX.

Lebanon Hospital.....	288	Home for Incurables.....	99
Lincoln Hospital.....	303	Seton Hospital.....	334
Riverside Hospital.....	332	Other institutions.....	142
St. Francis Hospital.....	258		
St. Joseph's Hospital.....	638	Total.....	2,872
Fordham Hospital.....	478		

BOROUGH OF BROOKLYN.

Angel Guardian Home.....	45	Long Island State Hospital.....	184
Bethany Deaconess Hospital.....	31	Lutheran Hospital.....	40
Brooklyn Hospital.....	270	Methodist Episcopal Hospital.....	287
Bushwick Hospital.....	79	New York City Home for Aged and Infirm... ..	314
Consumptive Home.....	91	Norwegian Hospital.....	150
Cumberland Street Hospital.....	201	Samaritan Hospital.....	38
Coney Island Hospital.....	170	St. Catharine's Hospital.....	277
Eastern District Hospital.....	90	St. Christopher's Hospital.....	84
German Evangelical Hospital.....	45	St. John's Hospital.....	125
German Hospital.....	266	St. Mary's Hospital.....	312
Home for Aged (Little Sisters of Poor).....	74	St. Peter's Hospital.....	524
Infants' Hospital.....	35	Swedish Hospital.....	69
Jewish Hospital.....	308	Williamsburg Hospital.....	182
King's County Hospital.....	1,430	Other institutions.....	564
Kingston Avenue Hospital.....	308		
Long Island College Hospital.....	277	Total.....	6,870

BOROUGH OF QUEENS.

Flushing Hospital.....	131	St. Mary's Hospital.....	121
Jamaica Hospital.....	67	Other institutions.....	81
St. John's Hospital.....	207		
St. Joseph's Hospital.....	77	Total.....	684

BOROUGH OF RICHMOND.

City Farm Colony.....	112	St. Vincent's Hospital.....	168
Marine Hospital.....	35	Other institutions.....	61
S. R. Smith's Infirmary.....	199		
Sailor's Snug Harbor.....	82	Total.....	657

RECAPITULATIONS.

Borough of Manhattan.....	17,091	Borough of Queens.....	684
Borough of The Bronx.....	2,872	Borough of Richmond.....	657
Borough of Brooklyn.....	6,870		
		City of New York.....	28,174

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Disposition of the Dead and all Still-born Infants of The City of New York.

Cemeteries.		Cemeteries.	
Number of Interments.		Number of Interments.	
Borough of Manhattan—		Borough of Queens—Continued	
First Presbyterian.....	1	Mount Judah.....	43
Grace Church Vault.....	1	Mount Nebo.....	217
Marble.....	2	Mount Olivet.....	2,022
St. Patrick's Cathedral Vault.....	2	Mount St. Mary's.....	297
Trinity.....	21	Mount Zion.....	3,195
Total.....	27	Prospect.....	40
		Springfield.....	30
		St. George's.....	3
		St. John's.....	2,160
		St. Mary's.....	11
		St. Michael's.....	2,469
		St. Monica's.....	73
		Union Fields.....	436
		United States Crematory.....	818
		Total.....	45,999
Borough of The Bronx—		Borough of Richmond—	
City.....	5,841	A. M. E. Zion.....	8
Pelham Bay.....	9	Baron Hirsch.....	702
St. Peter's.....	16	Bethel.....	46
St. Raymond's.....	2,671	City Farm Colony.....	184
Woodlawn.....	2,174	Fairview.....	94
Total.....	10,711	Fountain.....	12
		Hillside.....	13
		Lake.....	60
		Moravian.....	345
		Mount Loretto.....	5
		New Springville.....	16
		Mount Richmond.....	1,191
		Reformed Churchyard.....	2
		Sailors' Snug Harbor.....	62
		Sandy Hill St. Andrew's.....	6
		St. John's Lutheran.....	5
		St. Joseph's.....	23
		St. Luke's.....	6
		St. Mary's, Third Ward.....	60
		St. Mary's, Fourth Ward.....	106
		St. Michael's.....	1
		St. Peter's.....	211
		Silver Lake.....	25
		Silver Mount.....	71
		Staten Island.....	16
		Sylvan.....	7
		United Hebrew.....	330
		West Baptist.....	7
		Woodland.....	155
		Woodrow's Church.....	3
		Total.....	3,772
Borough of Brooklyn—		Summary—	
Canarsie.....	65	Borough of Manhattan.....	27
County Farm.....	1,497	Borough of The Bronx.....	10,711
Cypress Hills.....	630	Borough of Brooklyn.....	17,301
Evergreen.....	917	Borough of Queens.....	45,999
Flatlands.....	7	Borough of Richmond.....	3,772
Friends.....	15		
Gravesend.....	23		
Greenwood.....	3,543		
Holy Cross.....	5,802		
Holy Trinity.....	1,848		
Maimonides.....	92		
Mount Hope.....	115		
National.....	133		
New Lots.....	6		
New Utrecht.....	4		
Salem Fields.....	161		
United Jewish Congregation.....	53		
Washington.....	2,330		
Total.....	17,301		
Borough of Queens—			
Acacia.....	244		
Beth-El.....	139		
Bayside.....	311		
Calvary.....	19,138		
Cedar Grove.....	435		
Cypress Hills.....	1,120		
Evergreen.....	3,093		
Flushing.....	297		
Grace Church.....	10		
Linden Hill.....	1,753		
Lutheran.....	5,128		
Machpelah.....	151		
Maple Grove.....	309		
Montefiore.....	984		
Mount Carmel.....	578		
Mount Hebron.....	495		

VITAL STATISTICS.

Deaths of Persons 100 Years of Age and Over.

Date of Death.	Name.	Age.			Nativity.	Cause of Death.	Borough of					City of New York.
		Years.	Months.	Days.			Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
1912												
Jan. 30	Caranbo Asposito....	104	...	...	Italy.....	Heart disease.....	...	...	1	...	...	1
Feb. 20	Jane E. Fraser.....	100	...	...	United States.	Senility.....	...	...	1	...	...	1
Mar. 3	Eliza Redmond.....	102	...	...	Ireland.....	Senility.....	1	...	...	...	...	1
Mar. 5	Mary E. Jones.....	103	...	...	Wales.....	Heart disease.....	...	...	1	...	...	1
July 6	Henrietta Wilson....	108	...	...	United States.	Senility.....	1	...	...	...	...	1
July 7	Coleman Stewart....	101	...	...	United States.	Rheumatism.....	1	...	...	...	...	1
Oct. 6	Mary Carter.....	110	...	...	United States.	Endocarditis.....	1	...	...	...	...	1
Oct. 14	Maria De Filippas...	103	...	...	Italy.....	Ac. Bronchitis...	1	...	...	...	...	1
Dec. 25	Ellen Horgan.....	104	...	...	Ireland.....	Old age.....	1	...	...	...	...	1
	Total.....	6	...	3			6	...	3	...	...	9

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

U. S. Department of Agriculture Weather Bureau.

NEW YORK, N. Y.

ANNUAL METEOROLOGICAL SUMMARY 1912

With Comparative Data.

ANNUAL SUMMARY.

January and February, with a total of 17 hours with temperatures of zero or lower were unusually cold. In the last 18 years this record has been exceeded only by 1904 with 18 hours in January, and by 1899 with 22 hours in February. Temperature departures were small from March to September, but October, November and December were sufficiently warm to compensate for January and February, so that at the close of the year there was a slight accumulated excess in temperature. The annual range was 96°, from —3°, January 13, to 93°, July 8. There were no long periods of extremely hot weather such as occurred in the summer of 1911.

Precipitation was deficient, except in March, April, May, October and December. The total, 38.50 inches is 6.26 below normal. This is the fifth consecutive year with deficient precipitation, the accumulated deficiency for this period being 22.75 inches. Rainy days, totaling 119 are 9 less than normal, but days with one inch or more of rain, totaling 11, are exactly normal. There were three periods of 15 days each without measurable precipitation.

The average hourly wind movement, 17.7 miles, seems extraordinary when compared with the normal, 11.5, but this difference is probably almost entirely due to a change in the elevation and exposure of the anemometer on May 1, 1911, from 350 feet at 100 Broadway to 454 feet at 17 Battery Place.

Records were broken, February 22 for highest wind velocity at this station, April 23 for highest wind velocity in April, and September 30 for lowest temperature in September.

WEATHER BY MONTHS.

January—Extreme temperature fluctuations and cold weather were features of the month in striking contrast with the unusually mild December preceding. The first cold wave, 5th—6th was moderate. The second, from a temperature of 46° at midnight of the 8th, reached a minimum of —3° at 6:30 a. m. of the 13th, the first zero weather since January 24, 1907. In the third cold wave the temperature fell from 38° at 2 p. m. of the 15th to 1° at 9 a. m. of the 16th; and in the fourth, from 52° at 10 a. m. of the 19th to 15° at 7 a. m. next day. The mean temperature, 23.5° is 6.7° below normal and is the lowest January mean since 1893. The period, 5th—17th with a mean of 16.6° is the coldest 13-day period in the last 42 years, except January 10th—22nd, 1893 with a mean of 14.5°. By the 13th the Hudson River was frozen over solid at Yonkers—said to be the first time since 1893. Precipitation occurred on 15 days, three more than the average, but the total, 1.86 inches, is less than half the normal amount. There was snow on the ground during 19 days, the heaviest fall, 3.0 inches, occurring on the 12th.

VITAL STATISTICS.

February—Was continuously and at times severely cold from the 3rd to 14th. In the only well defined cold wave, the temperature fell from 25° at 1 p. m. of the 9th to -2° at 7 a. m. of the 10th. The period, 16th—26th was generally warm for the season. The mean 28.4° is 2.3° below normal. Precipitation was deficient. The 15 days, 5th—19th, were without measurable amount. The only measurable snowfall was 1.8 inches on the 4th. The ground was practically bare of snow after the 7th. An unprecedented wind-storm occurred on the 21st—23rd. On the 22nd the average hourly movement was 58 miles. For 5 minutes ending 1:13 a. m. of the 22nd, the average was 96 miles per hour, the highest of record, and two miles were recorded at the rate of 120 miles per hour. The damage from this storm to shipping in the harbor was considerable.

March—Opened cold with temperatures constantly below freezing till the 7th. The periods, 12th—20th and 27th—31st were notably warm. Between was a well defined cold wave, the temperature falling from 54° at 9 a. m. of the 20th to 22° at midnight of the 21st. The monthly mean, 36.8° is 0.7° below normal. Measurable precipitation occurred on 16 days, the total, 5.68 inches, being 1.58 above normal. The 20th—25th, 6 days, is the longest period during the year with precipitation on consecutive days. Heavy rains on the 12th, 13th, 24th and 29th, on frozen ground, resulted in unusually heavy run-off, filling storage reservoirs and causing considerable damage from surface erosion. Snow fell on the 5th, 6th and 12th, and snow and sleet on the 21st and 23rd. The ground was snow covered only on the 5th, 6th and 21st. Windstorms of importance occurred on the 12th—13th, 15th—16th and 29th. The highest velocity was 78 miles from the southwest on the 15th.

April—Showery weather was the rule—16 days, five more than normal, being "rainy," but the total precipitation, 3.61 inches, is only 0.31 above normal. Much of this rain occurred at night. Thunderstorms occurred on the 2nd, 18th, 19th, 23rd and 27th. A warm wave, 5th—7th, reached its high point, 74° at 4 p. m. of the 6th. It was followed by a drop from 70° at 1 p. m. of the 7th, to 30° on the morning of the 8th. Another warm spell, 15th—16th, was followed by much colder on the 17th. The month closed cold. The mean, 49.0° is 0.9° above normal. Important windstorms occurred on the 3rd, 7th—9th, 23rd—24th and 27th—28th. That of the 23rd was severe. The maximum velocity in this storm and for the month was 84 miles from the northwest at 9:25 a. m., the highest of record for April.

May—Mild temperatures with ample and well distributed showers occurring mainly at night, made May nearly an ideal month. The mean temperature, 60.7° is 1.4° above normal. A warm period, 19th—21st, culminated in a temperature of 84°, the highest of the month, at 3 p. m. on the 21st. The total precipitation, 3.94 inches, is 0.76 above normal. During the rainy period, 5th—9th, 1.86 inches fell in 24 hours on the 7th—8th.

June—Precipitation was deficient, the total for the month, 1.17 inches, being practically one-third of the normal. Excepting a shower of 0.16 on the 25th there was no measurable rainfall after the 17th. By the close of the month, vegetation was suffering and short pastures resulted in a great decrease in the milk supply for the city. Warm periods are shown, 1st—4th and 21st—26th, with a single hot day—the 29th on which the temperature reached 93°, the highest of the month. The periods, 5th—10th and 14th—15th were cool. The mean temperature was nearly normal. Sunshine was much above normal, there being nine days with 100 per cent.

July—The first 10 days were without measurable precipitation. Frequent showers during the next 10 days and a heavy rain, 1.91 inches, on the 21st, relieved the drought considerably. Of this rain on the 21st, 1.85 inches fell in two hours. This is one of the most intense rainfalls on record for this station. (See table, page 12.) The 3rd—12th and 14th—17th were generally warm with temperatures above 90° on the 8th, 9th, 10th and

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

16th. The rest of the month was cool. The mean, 74.0° is only 0.5° above normal. The per cent. of sunshine was 76, there being 8 days with 100 per cent.

August—Cool weather prevailed the first 10 days; then moderately warm, 11th—15th; cool 16th—17th; warm 18th—22nd and 25th—26th; and cool 27th—31st. The mean, 70.7° is 1.5° below normal. Showers were well distributed and more frequent than normal, but generally light; the total amount, 2.77 inches, being but 61 per cent. of the normal. Heavy showers on the 19th totaled 1.17 inches. Thunderstorms occurred on 8 days, three more than the normal for August.

September—Opened cool but the temperature rose gradually to the maximum for the month, 88° on the 11th. The weather turned much cooler on the 12th, but returned to normal on the 14th. After the 20th it was continuously cool, and the minimum, 39° on the 30th, established a new low record for September. The mean, 65.9° is 0.6° below normal. The 17 cloudy days equal the record for cloudy days in September. Sunshine was correspondingly deficient. Precipitation was well distributed, and practically normal in frequency and amount.

October—From September 26th to October 10th, 15 days, no measurable rainfall occurred. Moderate rain on the 11th was followed by another period of 10 days without measurable precipitation. On the 23rd—24th, 3.77 inches occurred within 24 hours, 2.26 of which fell in two hours. (See table, page 12.) The total for the month, 4.32, is 0.61 above normal. The month was generally warm, averaging 58.5° — 2.9° above normal, with cool periods, 1st—3rd, 8th—9th, 15th—17th, and 24th—25th. The highest, 79° on the 7th, and lowest, 40° on the 16th, are well within the extremes for October. Sunshine, 70 per cent. of the possible, is 12 per cent. above normal; 12 days show 100 per cent. sunshine. The maximum wind velocity of 60 miles from the northwest occurred on the 15th.

November—Warm waves on the 6th—7th, 11th—13th and 21st—22nd, with moderately cool periods between, were features of the month. The mean, 46.6° is 2.6° above normal. Precipitation was deficient in both frequency and amount. A moderately heavy rain, 1.09 inches, occurred on the 7th. The first appreciable snowfall of autumn, 0.8 inch, occurred on Thanksgiving day, the 28th, and disappeared the following day. The 24th—25th were windy with a maximum of 60 miles, the highest of the month, on the 25th. Total possible sunshine occurred on 9 days.

December—Excepting the periods, 8th—9th, 11th—13th and 23rd—25th, mild temperatures prevailed. The mean, 38.5° , has been exceeded but four times in 42 years. The lowest, 17° on the 9th, is a high minimum for December. The mean humidity, 67 per cent., is the lowest of record. The only measurable snow occurred on the 24th. From 2 a. m. to 11 a. m. the rate of fall was more than an inch per hour. The total, 11.8 inches, is exceeded in December only by the 14-inch fall of 26th—27th, 1890. It melted rapidly and disappeared with a heavy, warm rain on the 30th. The period, 7th—16th was without appreciable precipitation. A severe windstorm occurred 27th—28th,—highest velocity 72 miles northwest.

MISCELLANEOUS DATA FOR 1912.

Barometric Pressure (reduced to sea-level)—Mean, 30.02 inches; highest, 30.65 inches, March 3rd; lowest, 29.23 inches, April 2nd.

Temperature—Greatest daily range, 36 degrees, January 9th; least daily range 5 degrees, May 7th.

Greatest monthly range, 60 degrees, February; least monthly range, 35 degrees, July.

Highest mean temperature of three consecutive days, 83 degrees, July 8th to 10th; lowest mean temperature of three consecutive days, $10\frac{1}{2}$ degrees, February 10th to 12th.

VITAL STATISTICS.

Precipitation—Longest period without a measurable amount of precipitation (.01 in. or more), 15 days, February 5th to 19th, June 26th to July 10th and September 26th to October 10th, inclusive.

Greatest number of consecutive days with precipitation (.01 in. or more) 6 days, March 20th to 25th, inclusive.

Snow—Greatest snowfall in 24 hours, 11.5 inches, December 24th.

Greatest depth of snow on the ground, measured at 8 p. m., 11.0 inches, December 24th.

Last snow in spring occurred on April 29th; first snow in autumn occurred on November 24th.

Frost—In Spring: last killing frost occurred on April 9th. No frost recorded subsequent to last killing.

In Autumn: first killing frost occurred on November 3rd, and no frost occurred before first killing.

Thunderstorms—First, February 26th; last, November 24th.

Hail—May 9th.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

United States Department of Agriculture Weather Bureau—Annual Meteorological Summary. New York, N. Y., Year 1912.

Month.	Temperature.*				Precipitation.**				Rel. Hum. [per cent.]	Sunshine.			Average cloudiness. † [Scale of 0 to 10].	Wind. †				Number of Days.															
	Mean.		Extremes.		Total.	Maximum in 24 hours.	Date.	Snowfall.		8 a. m.	8 p. m.	Number of hours.		Per cent. of possible.	Average hourly velocity.	Prevailing direction.	Maximum.			Winds 40 or more miles per hour.	Clear. †	Partly cloudy. †	Cloudy. †	Precipitation [0.1 in. or more].	Thunderstorms.	Dense fog.	Snow [0.1 in. or more].	Max. temp.		Min. temp.			
			Date.	Minimum.													Date.	Velocity.	Direction.									Date.	90 degrees and above.		32 degrees and below.		
January	32	16	24	52	19	—3	13	1.86	0.77	8-9	9.0	71	58	175	59	6.3	20.1	nw	68	nw	9	10	8	9	14	15	0	0	10	16	0	30	1
February	36	21	28	58	25	—2	10	2.06	1.08	26	1.8	67	56	236	76	4.4	21.0	nw	96	sw	22	13	12	11	9	4	1	1	2	11	0	24	2
March	44	29	37	65	29	13	3	5.68	1.28	12-13	4.2	75	64	225	61	5.6	18.7	n	78	sw	15	11	8	10	13	16	2	5	6	4	0	18	0
April	57	40	49	74	6	27	4	3.61	0.95	18-19	T.	70	66	225	56	6.4	20.7	nw	84	nw	23	10	7	11	12	16	5	3	0	0	0	4	0
May	69	52	61	84	21	43	1	3.94	1.86	7-8	0.0	73	65	297	66	5.6	18.0	sw	57	nw	13	10	11	9	11	10	4	1	0	0	0	0	0
June	76	61	68	93	29	50	8	1.17	0.47	6	0.0	63	59	357	79	5.7	15.6	nw	61	nw	17	2	10	9	11	8	3	1	0	0	0	0	0
July	82	66	74	93	8	58	23	3.26	1.91	21	0.0	72	65	349	76	5.1	14.6	sw	44	sw	14	4	14	7	10	9	7	1	0	0	1	0	0
August	78	64	71	89	26	53	31	2.77	1.17	19	0.0	73	65	303	71	6.1	14.8	nw	49	w	23	5	4	20	7	12	8	0	0	0	4	0	0
September	72	59	66	88	11	39	30	3.38	1.34	24-25	0.0	80	73	199	53	6.2	13.6	sw	48	sw	16	4	10	3	17	10	3	0	0	0	0	0	0
October	66	51	58	79	7	40	16	4.32	3.77	23-24	0.0	70	64	243	70	5.1	15.5	nw	60	nw	15	5	11	10	10	4	1	1	0	0	0	0	0
November	53	40	47	71	12	27	29	2.21	1.09	7	0.8	68	57	200	67	5.0	20.7	nw	60	nw	25	10	12	10	8	6	1	0	1	0	0	4	0
December	45	32	38	63	6	17	9	4.24	1.17	30	11.8	74	60	159	55	5.8	19.5	nw	72	nw	28	13	9	12	10	9	0	4	1	3	0	16	0
Year	59	44	52	93	—3	—	Jan. 13	38.50	3.77	23-24	27.6	71	63	2967	66	5.6	17.7	nw	96	sw	22	97	116	121	129	119	35	17	20	34	5	96	3

† Daylight hours only.

Elevation of instruments (feet): *414; **407; †454.

VITAL STATISTICS.

United States Department of Agriculture Weather Bureau—Normal and Comparative Data. Based on Records of Last 20 to 42 Years.

Month.	Temperature.					Precipitation.				Rel. Hum. per cent.	Sunshine.			Wind.		Number of Days.																							
	Maximum.	Mean.	Highest mean.	Lowest mean.	Daily range.	Daily variability.	Monthly.	Greatest monthly.	Least monthly.		Snowfall.	8 a. m.	8 p. m.	Number of hours.	Possible.	Per cent. of possible.	Cloudiness * [Scale 0 to 10.]	Hourly velocity.	Prevailing direction.	Winds 40 miles or more per hour.	Clear.* [Scale 0 to 3]			Partly Cloudy * [Scale 4 to 7.]	Cloudy.* [Scale 8 to 10]				Precipitation. [0.1 or more]		Thunderstorms.	Snow.	32 degrees and below.	Max. temp.	Min. temp.				
																					Average.	Greatest.	Least.		Average.	Greatest.	Least.												
January . . .	37	24	30	40	23	13	9	3.79	6.15	1.15	9.2	76	71	154	298	51	5.9	13 nw	6	8	14	3	11	12	17	7	12	21	4	†	9	0	24	†					
February . .	38	24	31	40	23	14	9	3.74	7.81	0.82	10.5	74	69	183	298	60	5.6	14 nw	8	8	14	1	10	10	17	3	10	19	4	†	3	5	8	0	22	†			
March	45	31	38	48	29	14	5	4.10	7.90	0.86	7.3	73	68	210	371	57	5.8	14 nw	7	9	15	2	12	11	17	4	12	20	5	1	4	2	0	17	0				
April	57	41	48	54	41	16	5	3.30	7.02	1.00	0.8	71	65	239	400	60	5.6	12 nw	5	9	15	1	11	10	21	5	11	16	4	2	1	0	4	0					
May	68	52	59	65	54	16	4	3.18	9.10	0.33	0.0	73	68	263	449	59	5.5	11 nw	3	9	17	1	12	10	18	4	11	21	5	3	3	0	†	0	0				
June	77	61	68	72	64	16	4	3.26	7.70	0.86	0.0	75	69	281	452	62	5.4	10 s-sw	2	9	18	2	14	8	20	2	11	17	5	5	1	0	0	1	0	0			
July	82	67	74	78	70	16	3	4.54	9.63	0.23	0.0	76	69	290	458	63	5.3	9 s	2	9	15	2	14	8	17	2	12	19	3	7	1	0	0	3	0	0			
August	80	66	72	77	69	14	3	4.53	10.42	1.18	0.0	78	71	260	427	61	5.5	9 sw	1	10	17	3	13	9	16	3	10	17	4	5	†	0	0	1	0	0			
September . .	74	60	66	72	61	14	4	3.59	14.51	0.15	0.0	79	73	229	374	61	4.8	10 nw	2	11	20	2	10	9	17	1	9	17	2	2	1	0	0	1	0	0			
October	63	49	56	61	50	14	4	3.71	11.55	0.58	0.0	76	69	205	344	58	4.9	12 nw	3	11	19	2	10	9	17	3	9	15	4	1	2	0	0	0	†	0	0		
November . .	51	38	44	50	37	13	5	3.44	9.82	0.75	1.3	75	70	161	297	54	5.6	13 nw	5	9	17	2	10	10	18	5	10	17	3	†	3	1	1	0	7	0	0		
December . .	41	28	34	42	25	13	6	3.45	6.66	0.95	6.9	75	70	147	287	51	5.7	13 nw	6	8	15	3	11	11	19	3	10	18	4	†	3	4	6	0	21	†			
Year	59	45	52	54	49	15	5	44.63	58.68	35.73	36.1	75	70	2612	4456	58	5.4	2 nw	50	110	138	65	138	117	138	73	128	152	100	27	25	21	26	7	95	1			

* Daylight hours only.

† Less than one.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

SUMMARIES FOR THE YEARS 1790 TO 1912, INCLUSIVE.

The following tables have been compiled from the records of the Health Departments of New York and Brooklyn before consolidation into the present City of New York. The New York tables, therefore, present the statistics of the present boroughs of Manhattan and The Bronx, and the Brooklyn tables those of the present Borough of Brooklyn. It has been found impossible to prepare similar tables for the boroughs of Queens and Richmond:

FORMER NEW YORK (BOROUGH OF MANHATTAN AND THE BRONX).

Estimated Population, Deaths, Births and Marriages, from 1790 to 1912, Inclusive.

Year.	Population.	Deaths.	†Births.	†Marriages.	Year.	Population.	Deaths.	†Births.	†Marriages.
1790.....	32,962	.....	.....	.....	1815.....	99,952	2,511	.....	.....
1791.....	35,009	.....	.....	.....	1816.....	104,232	3,000	.....	.....
1792.....	37,182	.....	.....	.....	1817.....	108,695	2,409	.....	.....
1793.....	39,491	.....	.....	.....	1818.....	113,350	3,106	.....	.....
1794.....	41,943	.....	.....	.....	1819.....	118,204	3,178	.....	.....
1795.....	44,548	.....	.....	.....	1820.....	123,266	3,522	.....	.....
1796.....	47,314	.....	.....	.....	1821.....	130,840	3,422	.....	.....
1797.....	50,252	.....	.....	.....	1822.....	138,879	3,212	.....	.....
1798.....	53,372	.....	.....	.....	1823.....	147,413	3,551	.....	.....
1799.....	56,686	.....	.....	.....	1824.....	156,471	4,224	.....	.....
1800.....	60,206	.....	.....	.....	1825.....	166,086	4,920	.....	.....
1801.....	63,081	.....	.....	.....	1826.....	172,978	4,961	.....	.....
1802.....	66,094	.....	.....	.....	1827.....	180,157	5,139	.....	.....
1803.....	69,250	.....	.....	.....	1828.....	187,634	4,843	.....	.....
1804.....	72,557	2,084	.....	.....	1829.....	195,421	4,734	.....	.....
1805.....	76,022	2,297	.....	.....	1830.....	203,532	5,522	.....	.....
1806.....	79,653	2,174	.....	.....	1831.....	215,381	6,347	.....	.....
1807.....	83,456	2,236	.....	.....	1832.....	227,920	10,257	.....	.....
1808.....	87,442	1,950	.....	.....	1833.....	241,188	5,689	.....	.....
1809.....	91,618	2,038	.....	.....	1834.....	255,230	8,937	.....	.....
1810.....	95,993	2,073	.....	.....	1835.....	270,089	7,096	.....	.....
1811.....	95,957	2,431	.....	.....	1836.....	278,275	8,068	.....	.....
1812.....	95,920	2,503	.....	.....	1837.....	286,719	8,626	.....	.....
1813.....	95,884	2,335	.....	.....	1838.....	295,400	7,911	.....	.....
1814.....	95,848	1,844	.....	.....	1839.....	304,353	7,910	.....	.....

† Incomplete.

VITAL STATISTICS.

Year.	Population.	Deaths.	†Births.	†Marriages.	Year.	Population.	Deaths.	†Births.	†Marriages.
1840.....	313,578	8,469	.....	.....	1877.....	1,107,597	26,203	25,569	7,129
1841.....	324,342	9,093	.....	.....	1878.....	1,140,617	27,008	25,729	7,629
1842.....	335,475	9,154	.....	.....	1879.....	1,174,621	28,342	25,573	8,446
1843.....	346,991	8,659	.....	.....	1880.....	1,209,196	31,937	27,536	9,002
1844.....	358,902	8,890	.....	.....	1881.....	1,244,511	38,624	26,130	10,077
1845.....	371,223	10,122	.....	.....	1882.....	1,280,857	37,924	27,321	11,085
1846.....	396,686	11,411	.....	.....	1883.....	1,318,264	34,011	28,972	11,556
1847*.....	423,896	14,844	317	185	1884.....	1,356,764	35,034	30,527	11,805
1848.....	452,972	14,892	170	199	1885.....	1,396,388	35,682	30,030	11,716
1849.....	484,043	22,605	.....	.....	1886.....	1,437,170	37,351	31,319	12,216
1850.....	517,246	15,826	.....	.....	1887.....	1,479,143	38,933	34,023	13,740
1851.....	538,190	20,738	.....	.....	1888.....	1,522,341	40,175	36,136	14,533
1852.....	560,607	20,196	.....	.....	1889.....	1,566,801	39,679	37,527	14,400
1853†.....	583,632	21,979	10,157	3,203	1890.....	1,612,559	40,103	39,250	14,992
1854.....	607,603	28,473	17,979	5,595	1891.....	1,659,654	43,659	46,904	15,764
1855.....	652,559	24,448	14,145	4,199	1892.....	1,708,124	44,329	49,447	16,001
1856.....	664,980	21,748	16,199	3,633	1893.....	1,758,010	44,486	51,529	16,144
1857.....	699,062	22,811	18,427	3,710	1894.....	1,809,353	41,175	55,636	17,388
1858.....	734,892	23,269	13,340	3,942	1895.....	1,873,201	43,420	53,731	20,612
1859.....	772,558	22,745	9,035	3,100	1896.....	1,906,139	41,622	55,623	20,513
1860.....	812,154	24,760	12,454	4,241	1897.....	1,940,553	38,877	54,089	20,365
1861.....	794,905	24,525	10,004	2,993	1898.....	1,976,572	40,438	53,359	20,769
1862.....	778,023	23,150	7,612	2,896	1899.....	2,014,330	39,911	52,068	21,740
1863.....	761,500	26,617	6,426	3,272	1900.....	2,055,714	43,227	54,616	22,927
1864.....	745,327	25,792	5,877	2,675	1901.....	2,118,209	43,304	54,013	23,962
1865.....	729,498	25,767	5,332	2,733	1902.....	2,182,836	41,704	57,511	25,993
1866.....	767,979	26,815	10,006	5,792	1903.....	2,249,680	41,776	62,131	27,265
1867.....	808,489	23,159	12,535	7,144	1904.....	2,318,831	48,743	65,229	27,965
1868.....	851,137	24,889	12,590	6,926	1905.....	2,390,041	45,199	66,862	30,228
1869.....	896,034	25,167	13,947	8,695	1906.....	2,460,456	46,108	70,311	34,369
1870.....	943,300	27,175	14,524	7,985	1907.....	2,534,454	47,698	74,260	36,097
1871.....	955,921	26,976	20,821	8,646	1908.....	2,612,322	44,061	76,480	25,583
1872.....	968,710	32,647	22,068	9,008	1909.....	2,694,373	44,387	73,173	28,459
1873.....	981,671	29,084	22,683	8,871	1910.....	2,780,950	45,628	77,262	31,191
1874.....	1,030,607	28,727	25,747	8,397	1911.....	2,872,428	45,324	78,991	32,701
1875.....	1,044,396	30,709	23,813	7,565	1912.....	2,969,220	43,492	79,925	34,603
1876.....	1,075,532	29,152	23,744	7,099					

* First year of registration of births and marriages.
† Births and marriages from July 1 to December 2.
‡ Incomplete.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

The following tables present statistics relating to the present City of New York, limits of that city, so far as the same can be ascertained, together with the development

POPULATION OF THE FORMER CITY OF

Boroughs of Manhattan

Ward.	Year of Formation	From What Taken.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.	1845.	1850.
1st.....	1791	.....	4,320	7,941	7,630	12,085	9,929	11,331	10,380	10,629	12,230	19,754
2d.....	1791	.....	5,167	8,493	7,439	8,214	9,315	8,203	7,549	6,394	6,962	6,665
3d.....	1791	.....	6,449	7,426	7,495	9,201	10,801	9,599	10,844	11,581	11,900	10,355
4th.....	1791	.....	6,935	10,226	9,856	10,736	12,240	12,705	15,439	15,770	21,000	23,250
5th.....	1791	.....	9,148	14,744	14,523	12,421	15,093	17,722	18,495	19,159	20,362	22,686
6th.....	1791	.....	13,076	11,286	11,821	13,309	20,061	13,570	14,827	17,198	19,343	24,698
7th.....	1791	.....	15,394	12,120	10,886	13,006	14,192	15,873	21,481	22,982	25,556	32,690
8th.....	1803	7th Ward.....	.....	9,128	10,702	13,766	24,285	20,729	28,570	29,073	30,900	34,612
9th.....	1803	7th Ward.....	.....	4,719	4,343	11,162	10,956	17,333	20,618	24,795	30,907	40,657
10th.....	1808	7th Ward.....	.....	10,290	10,824	17,806	23,932	16,438	20,926	29,026	20,993	23,316
11th.....	1825	{ 9th and 10th Wards..... }	.....	.....	.....	.....	7,344	14,915	26,845	17,053	27,259	43,758
12th.....	1825	{ 9th and 10th Wards..... }	.....	.....	.....	.....	7,938	11,808	24,437	11,652	13,378	10,451
13th.....	1827	10th Ward.....	.....	.....	.....	.....	.....	12,598	17,130	18,517	22,411	28,246
14th.....	1827	{ 6th and 8th Wards..... }	.....	.....	.....	.....	.....	14,288	17,306	20,235	21,103	25,196
15th.....	1832	9th Ward.....	.....	.....	.....	.....	.....	.....	13,202	17,755	19,422	22,564
16th.....	1836	12th Ward.....	.....	.....	.....	.....	.....	.....	.....	22,723	40,350	52,882
17th.....	1837	11th Ward.....	.....	.....	.....	.....	.....	.....	.....	18,619	27,147	43,766
18th.....	1846	16th Ward.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31,546
19th.....	1850	12th Ward.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18,465
20th.....	1851	16th Ward.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
21st.....	1853	18th Ward.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22d.....	1853	19th Ward.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23d.....	1874	{ Westchester County..... }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24 th....	{ 1874 and 1895 }	{ Westchester County.... }	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,436
Total.....	.....	.....	60,489	96,373	95,519	123,706	166,086	197,112	268,089	312,710	371,223	519,983

NOTE.—In this and the four following tables, the columns headed by decade years give the results of the

The figures, for years prior to 1870, for this and the following tables, are taken from the official report of as given in the reports of the United States census for those years. The actual figures of the columns, however,

The city was originally divided into seven wards in 1686, by Governor Dongan's charter. They were Manhattan Island forming the Out Ward.

* The New York State census of New York City (Boroughs of Manhattan and The Bronx) was not taken

N. B.—The Twenty-third and Twenty-fourth Wards constitute the present Borough of the Bronx. They cannot be given previous to the census of 1875, the population as given in the table for previous years, being the separated from Westchester County as a whole, and formed into the towns of West Farms (1846) and Morrisania

A On June 6, 1895, a portion of Westchester County, comprising a part of the present Twenty-fourth Ward, States census, was 25,085.

VITAL STATISTICS.

showing the growth of population since 1800 in the territory now comprised within the and successive segregation of the smaller civil divisions thereof:

NEW YORK, BY CENSUS, SINCE 1800.

and the Bronx.

1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	Police Census, 1890.	*New York State Census, 1892.	Police Census, 1895.	United States Census, 1900.	*New York State Census, 1905.	United States Census, 1910.
13,846	18,148	9,852	14,463	14,298	17,939	11,122	12,075	.....	12,508	9,516	.....	9,845
3,249	2,506	1,194	1,312	1,012	1,608	929	1,510	.....	1,038	1,488	.....	933
7,909	3,757	3,367	3,715	2,874	3,582	3,765	3,418	.....	4,014	1,797	.....	1,915
22,895	21,991	17,352	23,748	20,828	20,996	17,809	19,337	.....	18,405	19,554	.....	21,337
21,617	22,337	18,205	17,150	15,951	15,845	12,385	12,949	.....	10,603	8,298	.....	5,666
25,562	26,696	19,754	21,123	19,861	20,196	23,119	23,058	.....	22,897	20,004	.....	19,670
34,422	39,982	36,962	44,818	45,636	50,066	57,366	62,139	.....	74,227	89,237	.....	102,104
34,052	39,406	30,098	34,913	32,465	35,879	31,220	41,890	.....	31,374	29,059	.....	33,189
39,982	44,385	38,504	47,609	49,403	54,596	54,425	60,243	.....	60,987	59,650	.....	64,884
26,378	29,004	31,537	41,431	41,757	47,554	57,596	64,076	.....	70,168	71,879	.....	66,438
52,979	59,571	58,953	64,230	63,855	68,778	75,426	83,337	.....	86,722	99,144	.....	136,543
17,656	30,651	28,259	47,497	60,510	81,800	245,046	275,587	.....	364,412	476,602	.....	806,674
26,597	32,917	26,388	33,364	34,013	37,797	45,884	51,649	.....	58,802	64,117	.....	64,644
24,754	28,080	23,382	26,436	26,453	30,171	28,094	30,752	.....	31,904	34,035	.....	38,269
24,046	27,587	25,572	27,587	25,529	31,882	25,399	32,707	.....	26,216	24,066	.....	30,591
39,823	45,176	41,972	48,359	48,235	52,188	49,134	61,419	.....	57,430	52,808	.....	55,926
59,548	72,953	79,563	95,365	101,075	104,837	103,158	107,737	.....	114,727	130,796	.....	172,332
39,415	57,462	47,613	59,593	61,195	66,611	63,270	70,299	.....	67,469	61,325	.....	62,601
17,866	32,795	39,945	86,090	118,727	158,191	234,846	257,766	.....	267,076	257,448	.....	292,914
47,055	67,519	61,884	75,407	79,764	86,015	84,327	93,844	.....	94,969	89,798	.....	73,299
27,914	49,017	38,669	56,703	58,831	66,536	63,019	78,689	.....	72,144	60,211	.....	62,616
22,605	61,725	47,361	71,349	83,420	111,606	153,877	184,979	.....	194,893	189,261	.....	209,152
12,436	16,343	19,024	28,981	{ 24,320 11,874	{ 28,338 13,288	{ 53,948 20,137	{ 60,445 20,810	.....	{ 81,567 26,508	{ 132,413 168,094	.....	{ 270,320 160,660
642,246	830,012	745,410	971,273	1,041,886	1,206,299	1,515,301	1,710,715	1,801,739	1,851,060	2,050,600	2,384,326	2,762,522

United States census, and the others, excepting when otherwise stated, the results of the New York State census. the New York State census of 1865. The totals at the foot of the columns for 1840, 1850, and 1860 are the true totals, when summed up, do not give the same totals, that for 1840 being 313,161; for 1850, 515,557, and for 1860, 813,668. not numbered at that time, but were called the West, South, Dock, East, North and Montgomerie Wards, the rest of

by wards, but by assembly districts, so that only the total is available for this table. were formed from a part of Westchester County, and owing to the division of townships and villages, correct figures minimum, but not the true total. The portion represented above, which afterward became a part of New York, was formed from West Farms (1855). was annexed to The City of New York; the population of this [annexed district] June 1, 1900, according to the United

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population of Former City of New York, From 1628 to 1910, With Dates and Numbers of Censuses.

Year.	Population.	Authority.
1628.....	270	City Inspector's Report, 1861.
1656.....	1,000	City Inspector's Report, 1861.
1664.....	1,500	City Inspector's Report, 1861.
1697.....	4,302	Census (Noah Webster in "American Magazine," New York, March, 1788).
1703.....	4,375	City Inspector's Report, 1861.
1712.....	5,841	City Inspector's Report, 1861.
1723.....	7,248	City Inspector's Report, 1861.
1731.....	8,622	City Inspector's Report, 1861.
1737.....	10,664	City Inspector's Report, 1861.
1746.....	11,717	City Inspector's Report, 1861.
1749.....	13,294	City Inspector's Report, 1861.
1756.....	13,046	Noah Webster, loc. cit.
1771.....	21,862	Noah Webster, loc. cit.
1786.....	23,614	Noah Webster, loc. cit.
1790.....	33,131	United States Census, August 1.
1800.....	60,515	United States Census, August 1.
1810.....	96,373	United States Census, August 1.
1814.....	95,519	New York State Census, June 1.
1820.....	123,706	United States Census, August 1.
1825.....	166,086	United States Census, July 1. (?)
1830.....	202,589	United States Census, June 1.
1835.....	270,089	New York State Census, July 1. (?)
1840.....	312,710	United States Census, June 1.
1845.....	371,223	New York State Census, July 1.
1850.....	515,547	United States Census, June 1.
1855.....	629,904	New York State Census, June 1.
1860.....	813,669	United States Census, June 1.
1865.....	726,386	New York State Census, June 1.
1870.....	942,292	United States Census, June 1.
1875.....	*1,041,886	New York State Census, June 1.
1880.....	1,206,299	United States Census, June 1.
1890.....	1,513,501	United States Census, June 1.
1900.....	A2,050,600	United States Census, June 1.
1905.....	2,384,326	New York State Census, June 1.
1910.....	2,762,522	United States Census, April 15.

NOTE.—A city census, taken by order of the Common Council in 1805 (date uncertain), gave the population as 75,770; a second, taken under similar auspices in 1816 (date uncertain), gave the population variously at 93,634 and 100,619.

* On January 1, 1874, a portion of Westchester County, comprising the present Twenty-third and Twenty-fourth Wards, was annexed to the City of New York; the population of this annexed district June 1, 1875, according to the New York State Census, was 36,194.

A. On June 6, 1895, a portion of Westchester County, comprising a part of the present Twenty-fourth Ward, was annexed to the City of New York, the population of this annexed district June 1, 1900, according to the United States Census, was 25,085.

VITAL STATISTICS.

Population of Former New York City, by Wards.

Ward.	1860.	1865.	1870.	1875.	1880.	1890.		1900.	1910.
						*U. S. Census.	†Police Census.		
First.....	18,148	9,852	14,463	14,298	17,939	11,105	12,075	9,516	9,750
Second.....	2,506	1,194	1,312	1,012	1,608	922	1,510	1,488	933
Third.....	3,757	3,367	3,715	2,874	3,582	3,757	3,418	1,797	1,915
Fourth.....	21,994	17,352	23,748	20,828	20,996	17,764	19,337	19,554	21,336
Fifth.....	22,337	18,205	17,150	15,951	15,845	12,351	12,949	8,298	5,666
Sixth.....	26,696	19,754	21,153	19,861	20,196	22,993	23,058	20,004	1,967
Seventh.....	39,982	36,962	44,818	45,636	50,066	57,231	62,139	89,237	102,101
Eighth.....	39,406	30,098	34,913	32,465	35,879	31,169	41,890	29,059	33,182
Ninth.....	44,385	38,504	47,609	49,403	54,596	54,654	60,243	59,650	64,909
Tenth.....	29,004	31,537	41,431	41,757	47,554	57,514	64,076	71,879	66,439
Eleventh.....	59,571	58,953	64,230	63,855	68,778	75,708	83,337	99,144	136,548
Twelfth.....	30,651	28,259	47,497	60,510	81,800	244,793	275,587	476,602	806,648
Thirteenth.....	32,917	26,388	33,364	34,013	37,797	45,882	51,649	64,117	64,651
Fourteenth.....	28,080	23,382	26,436	26,453	30,171	28,038	30,752	34,035	38,321
Fifteenth.....	27,587	25,572	27,587	25,529	31,882	25,185	32,707	24,066	30,584
Sixteenth.....	45,176	41,972	48,359	48,235	52,188	49,250	61,419	52,808	55,926
Seventeenth....	72,954	79,563	95,365	101,075	104,837	102,668	107,737	130,796	172,334
Eighteenth.....	57,462	47,613	59,593	61,195	66,611	63,100	70,299	61,325	62,821
Nineteenth.....	32,795	39,945	86,090	118,727	158,191	232,978	257,766	257,448	292,950
Twentieth.....	67,519	61,884	75,407	79,764	86,015	84,218	93,844	89,798	73,308
Twenty-first....	49,017	38,669	56,703	58,831	66,536	62,295	78,689	60,211	62,345
Twenty-second.	61,725	47,361	71,349	83,420	111,606	156,526	184,979	189,261	209,154
Twenty-third...	.....	.....	.....	24,320	28,338	53,621	60,445	132,413	268,880
†Twenty-fourth.	.....	.....	.....	11,874	13,288	19,779	20,810	468,094	162,062
Total.....	813,669	726,386	942,292	1,041,886	1,206,299	1,513,501	1,710,715	2,050,600	2,762,433

* June 1, 1890. † October, 1890. ‡ Twenty-third and Twenty-fourth Wards annexed January 1, 1874.
A. On June 6, 1895, a portion of Westchester County, comprising a part of the present Twenty-fourth Ward, was annexed to The City of New York, the population of this annexed district, June 1, 1900, according to the United States Census, was 25,085.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Former New York City, Boroughs of Manhattan and The Bronx, Population, Annual Deaths with Death Rates per 1,000 Population and Deaths from Prominent Causes with Rates per 100,000 Population.

Year.	Population.	Total Deaths.	Death Rate per 1,000.	Cerebro-spinal Meningitis.	Diphtheria and Croup.	Typhoid Fever.	Typhus Fever.	Measles.	Scarlet Fever.	Smallpox.	Malaria.	Whooping Cough.	B. Paratubercular Diseases.	Diarrheal Diseases.	5 yrs. of Age.	Deaths.	Rate.	Cancer.
1868	1,137,685	24,484	21.56	34	619	274	121	206	198	96	261	117	4,150	2,526	414	513	37.00	
1869	1,086,457	25,167	23.18	42	717	329	125	238	107	203	128	358	3,443	3,856	421	304	33.93	
1870	945,303	27,175	28.85	32	729	422	134	298	107	203	125	201	3,483	3,917	415	301	33.64	
1871	955,921	28,617	30.04	48	765	450	136	400	124	805	279	465	4,655	5,569	507	392	40.70	
1872	988,710	32,647	33.11	78	791	463	138	463	124	629	266	465	5,832	5,571	507	392	40.70	
1873	981,671	29,084	29.63	78	744	313	131	306	105	117	265	268	4,475	4,566	393	387	40.30	
1874	1,030,607	29,727	27.89	158	883	319	136	319	105	117	265	268	4,475	4,566	393	387	40.30	
1875	1,044,336	30,152	27.40	146	867	362	136	362	105	117	265	268	4,475	4,566	393	387	40.30	
1876	1,075,532	30,152	27.11	127	827	325	136	325	105	117	265	268	4,475	4,566	393	387	40.30	
1877	1,107,557	29,152	26.33	116	721	343	136	343	105	117	265	268	4,475	4,566	393	387	40.30	
1878	1,140,617	27,005	23.67	97	830	321	136	321	105	117	265	268	4,475	4,566	393	387	40.30	
1879	1,174,621	28,342	24.13	108	1,163	321	136	321	105	117	265	268	4,475	4,566	393	387	40.30	
1880	1,209,136	31,937	26.42	170	1,300	372	136	372	105	117	265	268	4,475	4,566	393	387	40.30	
1881	1,244,511	32,924	26.42	170	1,300	372	136	372	105	117	265	268	4,475	4,566	393	387	40.30	
1882	1,280,837	37,924	29.61	238	1,581	461	135	461	135	260	222	658	4,821	4,821	415	330	43.00	
1883	1,318,264	34,031	25.81	223	1,633	425	134	425	134	228	36	674	4,554	4,554	330	340	42.68	
1884	1,356,641	35,082	25.81	210	1,438	476	135	476	135	228	36	674	4,554	4,554	330	340	42.68	
1885	1,396,388	35,082	25.16	202	1,446	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1886	1,437,170	37,351	26.00	203	1,532	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1887	1,479,143	38,933	26.33	203	1,532	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1888	1,522,431	40,175	26.39	173	1,366	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1889	1,566,801	39,079	25.36	145	1,160	361	134	361	134	228	36	674	4,554	4,554	330	340	42.68	
1890	1,612,556	40,103	24.87	139	1,187	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1891	1,659,651	43,659	26.31	189	1,393	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1892	1,708,124	44,329	25.95	230	1,528	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1893	1,758,010	44,486	25.30	249	1,538	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1894	1,803,351	41,175	22.76	213	1,177	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1895	1,873,201	43,420	23.18	201	1,189	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1896	1,906,133	41,022	21.54	178	1,110	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1897	1,970,572	38,877	20.46	258	1,143	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1898	1,970,572	40,133	20.36	258	1,143	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1899	2,044,330	39,911	19.81	201	1,227	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1900	2,118,209	43,704	20.45	201	1,227	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1901	2,182,680	41,776	18.57	190	1,142	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1902	2,218,531	43,743	19.72	198	1,142	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1903	2,315,831	48,743	21.02	198	1,272	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1904	2,390,041	45,199	18.91	198	1,110	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1905	2,460,456	45,199	18.34	198	1,110	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1906	2,534,454	46,698	18.74	198	1,110	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1907	2,612,322	47,698	18.25	251	1,097	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1908	2,684,373	44,387	16.54	206	1,065	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1909	2,780,950	45,028	16.41	206	1,065	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1910	2,872,428	45,324	15.78	127	742	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1911	2,962,220	43,492	14.65	149	651	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	
1912	2,962,220	43,492	14.65	149	651	465	135	465	135	228	36	674	4,554	4,554	330	340	42.68	

Former New York City, Boroughs of Manhattan and The Bronx, Population, Annual Deaths with Death Rates per 1,000 Population and Deaths from Prominent Causes with Rates per 100,000 Population.

VITAL STATISTICS.

Year.	Pulmonary.		Other Tuberculous Diseases.		Heart Diseases.		Nervous System.		Bronchitis.		Pneumonia.		Bright's Disease.		Puerperal Fever.		Other Puerperal Cases.		Sunstroke.		Accidents.		Homicide.		Suicides.	
	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.
1868.....	401.20	727	82.42	519	72.26	3,361	395.30	803	94.35	1,668	156.00	534	62.74	101	11.87	121	14.21	196	23.03	733	86.12	46	9	40	86	11.51
1869.....	3,631	846	94.41	686	76.56	2,950	329.30	877	97.88	2,100	234.70	557	62.16	108	12.05	116	12.95	26	2.92	707	89.50	37	4	43	102	11.38
1870.....	4,030	926	96.98	741	80.67	3,037	322.00	855	100.80	1,836	191.50	787	93.41	103	15.90	128	13.57	238	25.23	834	88.40	45	5	47	107	10.70
1871.....	4,186	937	96.81	813	85.05	2,656	765.70	904	100.80	1,834	191.50	949	99.44	103	20.19	188	19.66	21	2.20	1,071	112.00	65	6	50	114	11.92
1872.....	4,374	1,041	99.10	894	87.12	3,150	307.90	1,040	100.80	2,150	209.50	949	92.48	254	26.68	193	18.71	320	31.19	1,108	108.00	69	7	52	120	12.42
1873.....	4,134	905	92.20	860	87.60	2,432	736.10	1,065	103.40	2,382	237.20	876	89.24	258	26.29	169	17.32	34	3.46	968	98.62	73	7	44	118	12.02
1874.....	4,034	931	60.61	817	79.30	2,417	731.40	1,111	106.30	2,302	232.80	908	87.02	222	21.25	148	15.63	19	1.81	1,008	97.82	59	5	73	148	12.47
1875.....	4,172	999	50.73	885	92.24	2,457	718.50	1,214	112.90	2,542	236.30	900	87.02	222	21.25	148	15.63	19	1.82	1,007	92.56	62	5	63	155	14.81
1876.....	4,194	990	77.67	847	88.00	2,357	718.50	1,214	112.90	2,542	236.30	908	87.02	222	21.25	148	15.63	19	1.82	1,007	92.56	62	5	63	155	14.81
1877.....	4,464	965	20.60	647	58.22	1,668	93.63	2,358	706.70	1,884	103.80	919	80.56	172	15.08	128	11.22	52	4.56	890	74.38	58	5	65	148	13.36
1878.....	4,466	931	60.61	721	63.41	1,668	93.63	2,358	706.70	1,884	103.80	919	80.56	172	15.08	128	11.22	52	4.56	890	74.38	58	5	65	148	13.36
1879.....	4,436	969	30.75	726	61.16	1,661	95.36	2,349	707.50	2,554	217.40	1,027	87.44	216	18.39	143	12.17	41	3.49	837	71.26	48	4	60	117	9.96
1880.....	4,706	939	73.60	758	60.88	1,153	95.36	2,672	221.00	3,175	113.70	1,029	85.44	224	18.53	143	12.17	41	3.49	837	71.26	48	4	60	117	9.96
1881.....	5,312	1,026	90.91	815	65.12	1,290	130.40	1,552	131.20	2,821	231.40	1,187	95.38	244	19.61	182	14.63	134	10.77	1,059	85.50	76	5	63	199	15.54
1882.....	5,294	1,026	87.20	805	66.86	1,177	115.30	1,640	145.50	3,159	232.90	1,163	85.72	241	17.76	162	13.25	83	6.30	1,059	85.50	76	5	63	199	15.54
1883.....	5,235	1,026	87.20	804	59.26	1,662	128.50	2,911	211.60	3,435	108.90	1,165	90.67	254	19.27	162	13.25	83	6.30	1,055	77.76	65	4	65	220	16.58
1884.....	5,200	1,026	87.20	804	59.26	1,662	128.50	2,911	211.60	3,435	108.90	1,165	90.67	254	19.27	162	13.25	83	6.30	1,055	77.76	65	4	65	220	16.58
1885.....	5,177	981	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1886.....	5,360	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1887.....	5,260	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1888.....	5,290	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1889.....	5,179	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1890.....	5,179	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1891.....	5,179	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1892.....	5,179	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1893.....	5,179	1,026	87.20	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1894.....	4,658	957	50.73	868	68.10	2,379	119.90	3,466	191.30	3,655	214.00	2,140	176.50	249	13.80	155	12.60	205	9.97	1,908	106.10	92	4	41	500	23.32
1895.....	5,203	994	80.91	1,028	68.10	2,379	119.90	3,466	191.30	3,655	214.00	2,140	176.50	249	13.80	155	12.60	205	9.97	1,908	106.10	92	4	41	500	23.32
1896.....	5,121	901	1,062	68	58.10	2,379	119.90	3,466	191.30	3,655	214.00	2,140	176.50	249	13.80	155	12.60	205	9.97	1,908	106.10	92	4	41	500	23.32
1897.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1898.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1899.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1900.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1901.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1902.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1903.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1904.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1905.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1906.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1907.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1908.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1909.....	4,843	924	20.70	749	57.18	2,285	137.30	3,341	102.70	3,841	332.00	1,991	116.50	277	16.29	140	8.19	320	18.74	1,507	96.22	56	3	37	300	18.08
1910.....	4,843	924	20.70	749	57.18																					

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths and Death Rates—All Causes in Former New York City, by Age and Sex, Since 1880.

Year.	Total, Both Sexes.	Total.				Total Under 5 Years.				5 Years and Under 15 Years.				15 Years and Under 25 Years.	
		Males.		Females.		Males.		Females.		Males.		Females.		Males.	
		Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1880.....	31,037	16,831	28.45	15,106	24.45	7,912	111.7	6,738	96.4	815	6.8	788	6.5	941	8.3
1881.....	38,624	20,671	33.92	17,953	28.27	9,508	132.6	8,229	114.5	1,327	10.8	1,310	10.6	1,212	10.4
1882.....	39,291	20,966	33.86	17,858	27.29	9,317	124.6	8,293	111.5	1,089	8.7	1,051	8.6	1,145	9.6
1883.....	34,011	18,174	28.10	15,837	23.57	7,464	103.4	6,302	84.1	871	6.9	833	6.5	1,186	9.6
1884.....	35,034	18,401	27.88	16,633	23.08	8,150	103.4	7,122	91.2	786	6.1	782	6.0	1,137	8.9
1885.....	35,622	18,916	27.57	16,706	23.61	8,159	100.7	7,108	88.5	832	6.3	796	6.0	1,078	8.2
1886.....	37,331	20,269	28.80	17,062	23.27	8,848	106.4	7,273	88.1	853	6.4	791	5.8	1,172	8.7
1887.....	38,933	20,997	28.85	17,936	23.87	9,031	107.1	7,735	91.1	942	6.9	922	6.7	1,272	9.2
1888.....	40,175	21,558	27.50	18,617	24.09	9,277	105.7	8,081	92.6	1,003	7.3	973	6.9	1,284	9.0
1889.....	39,679	21,289	27.50	18,390	23.15	9,165	101.7	7,987	89.1	935	6.7	882	6.2	1,200	8.1
1890.....	40,103	21,435	26.94	18,668	22.85	8,659	93.5	7,640	82.9	745	5.2	722	5.0	1,270	8.4
1891.....	43,659	23,104	28.10	20,555	24.45	9,732	102.4	8,492	89.6	957	6.6	972	6.6	1,352	8.6
1892.....	44,329	24,044	28.48	20,285	23.48	10,099	103.4	8,538	88.0	1,004	7.1	970	6.5	1,397	8.7
1893.....	44,486	24,140	27.77	20,340	22.90	9,538	95.8	8,327	83.1	997	6.7	1,019	6.7	1,532	9.2
1894.....	41,175	22,216	24.81	18,959	20.74	9,442	91.7	8,116	78.8	909	6.0	916	5.9	1,240	7.3
1895.....	43,420	23,224	25.02	20,196	22.90	9,067	91.9	8,439	79.3	770	4.9	798	5.0	1,294	7.3
1896.....	41,622	22,592	23.90	19,030	19.87	9,007	83.5	7,740	71.3	766	4.7	780	4.7	1,222	6.8
1897.....	38,377	20,749	21.55	18,128	18.55	8,242	74.5	7,153	64.7	758	4.5	749	4.4	1,194	6.6
1898.....	40,438	21,799	22.23	18,639	18.74	8,364	73.9	7,227	64.1	704	4.0	699	3.9	1,240	6.8
1899.....	39,911	21,588	21.50	18,323	18.08	7,732	66.9	6,659	58.0	748	4.1	722	3.9	1,158	6.3
1900.....	43,227	23,459	22.98	19,768	19.10	8,544	72.3	7,104	60.6	819	4.3	818	4.3	1,251	6.7
1901.....	43,304	23,570	22.90	19,734	18.54	7,934	65.1	6,951	50.9	882	4.5	800	4.1	1,275	6.7
1902.....	41,704	22,677	20.83	19,027	17.35	8,066	64.3	6,951	55.8	897	4.5	835	4.1	1,157	5.9
1903.....	41,776	22,601	20.89	19,085	16.89	7,309	56.5	6,432	50.1	872	4.2	830	4.0	1,264	6.8
1904.....	48,713	26,618	23.08	22,125	18.99	8,063	64.5	7,533	50.9	1,234	5.8	1,244	5.8	1,521	7.3
1905.....	45,109	24,844	20.89	20,355	16.95	8,288	60.3	6,999	51.3	992	4.5	975	4.4	1,457	6.8
1906.....	46,108	25,050	20.92	21,058	16.52	8,386	59.1	7,154	50.8	919	4.1	767	3.3	1,421	6.4
1907.....	47,668	26,614	21.05	21,084	15.51	8,455	57.9	7,100	49.6	863	3.7	769	3.2	1,490	6.5
1908.....	44,061	24,272	18.03	19,789	15.02	8,035	53.3	6,875	40.0	835	3.6	805	3.5	1,336	5.6
1909.....	44,367	24,558	18.27	19,809	14.59	8,035	52.1	6,845	44.9	814	3.3	735	2.9	1,249	5.1
1910.....	45,628	25,172	18.11	20,456	14.71	7,950	53.3	6,744	45.9	795	3.2	753	3.0	1,382	5.1
1911.....	43,424	25,038	17.44	20,286	14.82	7,389	48.0	6,386	42.1	799	3.1	705	2.7	1,344	4.6
1912.....	43,492	24,373	16.42	19,119	12.87	7,050	44.3	5,709	36.9	759	2.7	694	2.6	1,352	4.6

VITAL STATISTICS.

Deaths and Death Rates—All Causes in Former New York City, by Age and Sex, Since 1880.

Year.	Total, Both Sexes.	25 Years and Under 25 Years.				45 Years and Under 65 Years.				65 Years and Over.			
		Males.		Females.		Males.		Females.		Males.		Females.	
		Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1880.....	31,937	969	7.2	3,213	16.4	2,880	14.4	2,618	32.6	1,332	109.1	1,609	97.2
1881.....	38,624	1,171	8.5	3,081	19.5	3,072	16.0	3,114	37.7	2,290	121.0	1,748	102.8
1882.....	37,024	1,160	8.2	3,078	18.8	3,072	14.8	3,066	36.1	2,477	114.9	1,856	106.3
1883.....	34,011	1,218	8.3	3,019	17.9	3,168	14.8	3,202	36.6	2,495	113.1	1,821	101.5
1884.....	35,034	1,126	7.4	3,682	16.0	3,218	14.6	3,154	35.1	2,526	109.8	1,859	101.0
1885.....	35,622	1,167	7.4	3,932	16.6	3,243	14.2	3,154	35.9	2,619	109.8	1,803	95.3
1886.....	37,351	1,112	6.9	4,260	17.5	3,105	13.5	3,520	36.9	2,660	106.9	2,051	105.5
1887.....	38,933	1,116	6.7	4,462	17.3	3,343	13.7	3,542	36.2	2,828	112.0	1,992	99.8
1888.....	40,175	1,256	7.3	4,590	17.3	3,343	13.5	3,644	35.6	2,879	104.6	2,056	100.3
1889.....	39,670	1,273	7.2	4,555	16.6	3,371	13.0	3,602	37.4	3,197	108.9	1,998	95.0
1890.....	40,103	1,232	6.7	4,947	17.4	3,699	13.7	3,935	37.4	3,427	116.1	2,549	114.7
1891.....	43,650	1,316	6.9	4,977	16.8	3,790	13.2	4,014	36.6	3,427	107.9	2,278	99.8
1892.....	44,320	1,346	6.9	5,260	17.1	3,770	13.2	4,200	38.0	3,336	108.7	2,366	100.9
1893.....	44,886	1,358	6.7	5,473	17.2	3,860	13.1	4,527	39.0	3,410	107.9	2,079	98.6
1894.....	41,175	1,212	5.8	4,779	14.5	3,515	11.5	3,946	33.1	3,043	101.4	2,157	89.6
1895.....	43,420	1,276	5.9	5,106	14.8	3,862	12.2	4,182	33.9	3,313	109.0	2,090	100.8
1896.....	41,622	1,251	5.9	5,194	14.8	3,597	11.1	4,286	34.2	3,250	97.9	2,057	95.1
1897.....	38,877	1,165	5.3	4,561	12.8	3,446	10.8	3,959	31.1	3,211	95.4	2,404	92.4
1898.....	40,438	1,165	5.3	4,934	14.3	3,613	10.8	4,258	33.1	3,316	104.9	2,019	98.2
1899.....	39,071	1,223	5.5	5,231	14.3	3,753	11.6	4,333	33.2	3,368	106.9	2,386	94.8
1900.....	43,227	1,234	5.6	5,629	15.1	4,017	11.6	4,683	35.3	3,701	112.3	2,563	101.7
1901.....	43,304	1,185	5.2	6,003	15.7	4,049	11.3	4,952	36.2	3,803	107.3	2,524	104.2
1902.....	44,704	1,254	5.3	5,472	13.8	3,933	10.7	4,735	33.6	3,442	97.0	2,350	87.4
1903.....	41,776	1,180	4.9	5,611	13.7	4,050	11.3	5,044	39.4	3,804	103.8	2,591	90.5
1904.....	48,713	1,516	6.1	6,549	15.6	4,421	11.3	5,888	39.4	4,213	109.7	3,198	100.7
1905.....	45,199	1,306	5.1	6,005	13.8	4,082	10.2	5,343	34.6	3,961	104.0	3,014	92.1
1906.....	46,108	1,276	4.8	6,213	13.9	4,133	9.6	5,857	36.8	4,063	104.6	3,166	93.8
1907.....	47,668	1,325	4.8	6,484	14.1	4,133	9.6	6,200	38.3	4,260	107.5	3,398	97.6
1908.....	44,081	1,223	4.3	5,647	11.9	3,839	8.7	5,655	33.4	3,900	94.0	3,007	83.8
1909.....	44,387	1,152	3.9	5,697	11.6	3,836	8.4	6,054	31.2	4,011	99.3	3,250	87.8
1910.....	45,658	1,248	4.1	5,761	11.9	3,925	8.6	6,054	31.2	4,331	100.5	3,475	80.4
1911.....	45,324	1,325	4.3	5,890	11.8	3,907	8.3	6,301	30.9	4,310	87.5	3,225	81.7
1912.....	43,492	1,143	3.5	5,767	11.1	3,722	7.6	6,234	31.0	4,305	85.0	3,486	75.5

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths and Death Rates Under One Year in Former City of New York (Manhattan and The Bronx), Per 1,000 Population Under 1 Year of Age.

	1890.		1891.		1892.		1893.		1894.		1895.		1896.		1897.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
Measles.....	220	4.87	176	3.79	262	5.48	111	2.25	181	3.63	102	3.66	187	3.57	108	2.06
Scarlet fever.....	248	5.31	191	4.12	175	3.66	248	5.04	233	4.62	211	4.60	225	4.29	205	3.88
Whooping cough.....	160	3.76	196	4.22	159	3.33	208	4.23	134	2.62	241	4.08	161	3.07	150	2.98
Diphtheria and croup.....	84	1.86	82	1.76	88	1.84	59	1.20	65	1.31	67	1.28	57	1.08	63	1.22
Erysipelas.....	1	.02	4	.08	7	.11	6	.10	15	.30	22	.42	20	.38	16	.30
Septicæmia.....																
Tubercular diseases (excluding tuberculosis pulmonalis).....	360	8.17	353	7.60	385	8.05	377	7.66	322	6.36	345	6.58	281	5.36	305	5.82
Syphilis.....	86	1.90	68	1.46	97	2.03	70	1.42	92	1.82	73	1.39	92	1.76	110	2.10
Meningitis, simple.....	31	7.55	375	8.07	397	8.30	406	9.47	401	7.92	385	7.39	358	6.83	314	5.99
Cerebrospinal meningitis.....	31	6.99	44	.95	49	1.02	90	1.83	56	1.11	65	1.24	55	1.06	57	1.09
Convulsions.....	462	10.23	485	10.41	519	10.85	582	11.82	602	11.88	473	9.02	458	8.74	368	7.02
Bronchitis.....	945	20.93	897	19.30	885	18.51	833	16.92	665	13.13	807	16.53	721	13.76	586	11.18
Pneumonia.....	985	21.86	1,243	26.75	1,328	27.27	1,312	26.66	1,156	22.82	1,411	23.90	1,422	27.14	1,331	25.40
Enteritis.....	3,077	68.14	3,367	72.46	3,358	70.22	3,222	65.66	3,111	61.42	3,249	61.95	3,070	58.58	2,953	56.36
Diarrhæa.....	41	.91	27	.58	33	.69	25	.51	35	.69	38	.72	29	.55	30	.57
Malnutrition and pretermatal.....	505	11.80	619	13.32	657	13.74	660	13.41	627	12.38	711	13.56	701	13.37	625	11.93
Constitutional debility.....	744	16.48	798	17.17	775	16.22	721	14.65	804	15.90	802	15.39	873	16.06	926	17.42
Marasmus.....	1,272	28.17	1,542	33.18	1,509	31.56	1,532	31.13	1,812	35.77	1,414	26.96	1,328	25.34	1,295	24.72
All other causes.....	774	17.14	711	15.30	818	17.74	582	11.83	485	9.58	619	11.50	715	13.54	577	11.01
Total.....	10,288	227.70	11,241	241.90	11,396	238.30	11,106	225.70	10,821	213.70	11,267	214.80	10,077	202.90	10,011	191.12
General death rate.....		24.87		26.31		25.95		25.30		22.76		23.18		21.84		20.03

	1898.		1899.		1900.		1901.		1902.		1903.		1904.		1905.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
Measles.....	121	2.37	95	1.81	116	2.22	61	1.13	126	2.27	101	1.77	145	2.46	97	1.60
Scarlet fever.....	36	.68	18	.34	28	.53	29	.53	35	.63	19	.33	27	.46	16	.26
Whooping cough.....	221	4.22	173	3.30	147	2.81	74	1.38	216	3.89	98	1.71	59	1.02	121	1.99
Diphtheria and croup.....	87	1.66	114	2.18	203	3.80	141	2.62	124	2.24	129	2.26	134	2.27	123	2.03
Erysipelas.....	42	.80	68	1.30	85	1.63	61	1.13	61	1.10	50	.87	92	1.50	106	1.71
Septicæmia.....	11	.21	20	.38	25	.47	14	.26	31	.60	25	.44	23	.39	43	.75
Tubercular diseases (excluding tuberculosis pulmonalis).....	278	5.31	255	4.87	243	4.65	216	4.01	193	3.48	219	3.83	237	4.02	126	2.08
Syphilis.....	55	1.05	70	1.34	97	1.86	68	1.26	99	1.82	71	1.24	85	1.44	94	1.58
Meningitis, simple.....	363	6.93	310	5.92	250	4.79	248	4.61	250	4.58	216	3.78	449	7.62	357	5.88
Cerebrospinal meningitis.....	73	1.39	73	1.39	65	1.24	52	.96	48	.86	45	.79	178	3.02	245	4.04
Convulsions.....	472	9.01	373	7.12	415	7.95	414	7.69	370	6.67	358	6.26	353	5.99	360	5.93
Bronchitis.....	610	11.64	650	12.57	559	10.70	506	9.41	600	10.82	498	7.49	533	9.95	480	7.91
Pneumonia.....	1,366	26.08	1,437	27.44	1,642	31.44	1,414	26.26	1,587	28.62	1,537	26.90	1,610	27.55	1,545	25.45
Gastritis.....	61	1.16	50	.95	61	1.17	59	1.16	67	1.21	25	.41	15	.25	20	.33
Diarrhæa.....	3,048	58.18	2,336	44.61	2,713	51.96	2,586	48.01	2,365	42.65	2,258	39.51	2,762	46.90	2,872	47.36
Intestinal obstruction.....	39	.74	43	.82	41	.78	50	.92	41	.74	38	.66	33	.56	38	.66
Malnutrition and pretermatal.....	601	11.47	574	10.96	654	12.52	398	7.40	355	6.42	382	6.60	367	6.43	485	7.99
Constitutional debility.....	844	16.11	722	14.84	760	14.50	1,062	19.74	1,864	33.62	1,975	34.56	2,267	38.49	2,340	38.64
Marasmus.....	1,270	24.25	1,224	23.33	1,467	28.09	1,253	23.70	503	9.07	501	9.82	598	10.45	507	9.34
All other causes.....	545	10.40	507	10.83	602	11.53	694	12.90	594	10.71	432	7.56	308	5.33	502	8.27
Total.....	10,163	194.00	9,155	174.80	10,068	193.00	9,348	173.70	9,481	171.00	8,922	156.10	10,127	172.00	10,318	196.90
General death rate.....		20.46		19.81		21.03		20.45		19.11		18.57		21.02		18.91

VITAL STATISTICS.

Deaths and Death Rates Under One Year in Former City of New York (Manhattan and The Bronx), Per 1,000 Population Under 1 Year of Age.

	1906.		1907.		1908.		1909.		1910.		1911.		1912.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
Measles.....	186	2.97	133	2.06	192	2.88	142	2.07	89	1.28	131	1.84	122	1.67
Scarlet fever.....	15	.24	14	.22	42	.63	30	.44	25	.36	14	.20	17	.23
Whooping cough.....	105	1.68	114	1.77	74	1.11	133	1.94	95	1.36	127	1.78	86	1.18
Diphtheria and croup.....	118	1.89	151	2.34	182	2.73	149	2.17	129	1.85	120	1.68	86	1.18
Erysipelas.....	83	1.33	86	1.33	79	1.18	110	1.60	117	1.68	126	1.77	120	1.65
Septicæmia.....	19	.30	35	.54	38	.57	19	.28	22	.32	14	.20	6	.08
Tubercular diseases (excluding tuberculosis pulmonalis).....	160	2.56	140	2.17	145	2.18	140	2.04	151	2.17	176	2.47	161	2.21
Syphilis.....	132	2.11	162	2.51	117	1.76	177	2.58	155	2.23	162	2.27	155	2.13
Meningitis, simple.....	198	3.16	167	2.59	127	1.91	148	2.16	76	1.09	70	.98	35	.48
Cerebrospinal meningitis.....	115	1.84	88	1.36	67	1.01	74	1.08	61	.88	38	.53	34	.47
Convulsions.....	391	6.25	304	4.71	256	3.85	225	3.28	218	3.13	209	2.93	125	1.72
Bronchitis.....	400	6.39	237	3.67	208	3.12	360	5.24	268	3.85	245	3.44	223	3.06
Pneumonia.....	1,851	29.57	1,877	29.08	1,666	25.03	1,841	26.82	1,594	22.80	1,639	22.99	1,665	22.88
Gastritis.....	10	.16	13	.20	18	.27	60	.87	56	.80	50	.70	34	.47
Diarrheas.....	2,774	44.32	2,990	46.32	2,918	43.84	2,354	34.29	2,726	39.14	2,102	29.49	1,801	24.75
Intestinal obstruction.....	60	.96	54	.84	44	.66	54	.78	60	.87	58	.81	63	.87
Malformations and preternatural.....	456	7.28	538	8.33	518	7.78	516	7.52	552	7.93	474	6.65	518	7.12
Congenital debility.....	2,501	39.96	2,590	40.12	2,419	36.34	2,263	32.97	2,526	36.27	2,595	35.14	3,164	43.48
Marasmus.....	521	8.32	491	7.61	497	7.47	395	5.75	579	8.31	471	6.61	381	5.24
All other causes.....	523	8.36	550	8.52	534	8.03	715	10.42	606	8.70	586	8.22	581	7.94
Total.....	10,493	167.70	10,646	164.90	10,074	151.30	9,005	144.29	10,005	143.60	9,317	130.70	8,796	120.90
General death rate.....	.....	18.71	.....	18.77	.....	16.81	.....	16.42	.....	16.41	.....	15.78	.....	14.65

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Typhoid Fever in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	286	228	2	2	2	3	18	18
1867.....	172	175	2	2	8	3	16	14
1868.....	181	148	....	....	3	3	9	11
1869.....	210	168	1	....	2	....	14	11
1870.....	225	197	2	3	....	2	9	11
1871.....	164	87	1	2	2	1	5	1
1872.....	220	166	1	1	6	2	7	9
1873.....	181	132	2	1	3	....	12	7
1874.....	159	146	....	4	1	3	5	1
1875.....	199	177	1	....	5	1	5	5
1876.....	180	145	1	2	3	2	13	6
1877.....	171	172	....	1	4	3	13	7
1878.....	163	158	1	....	2	2	10	12
1879.....	125	143	2	....	4	2	9	8
1880.....	202	170	1	3	2	3	10	12
1881.....	350	244	....	....	2	1	15	19
1882.....	267	249	2	....	1	4	9	11
1883.....	356	269	1	4	2	2	11	15
1884.....	267	209	1	....	3	1	9	7
1885.....	229	176	1	1	1	4	7	7
1886.....	237	196	4	2	2	....	18	8
1887.....	235	186	1	....	1	2	5	13
1888.....	235	129	....	1	1	....	9	2
1889.....	228	169	1	1	1	1	10	4
1890.....	201	151	1	....	2	2	5	4
1891.....	221	163	1	1	3	2	9	8
1892.....	230	170	1	2	4	2	7	2
1893.....	234	147	1	....	2	2	4	4
1894.....	194	132	2	1	1	1	2	3
1895.....	207	115	2	....	3	1	3	3
1896.....	180	117	2	2	....	....	7	3
1897.....	188	111	....	2	....	2	5	5
1898.....	253	123	....	....	1	1	4	3
1899.....	173	121	....	....	1	....	2	2
1900.....	234	138	2	....	2	2	5	6
1901.....	246	166	....	1	3	1	8	7
1902.....	262	137	....	....	4	1	4	3
1903.....	211	139	1	....	2	....	4	7
1904.....	195	114	2	2	1	3	7	7
1905.....	179	131	1	....	2	....	3	4
1906.....	227	142	1	....	1	3	4	4
1907.....	291	129	....	....	....	....	9	2
1908.....	192	99	1	....	....	2	3	3
1909.....	235	90	1	1	2	1	8	3
1910.....	199	111	1	....	1	....	5	2
1911.....	185	110	1	1	1	2	3	5
1912.....	138	80	....	....	1	1	1	3

* Including typho-malarial fever.

VITAL STATISTICS.

*New York City, by Age and Sex**

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
22	23	45	43	72	57	103	67	34	32	10	6
26	19	21	26	27	38	48	56	36	28	14	8
12	14	31	27	47	38	57	39	26	21	8	9
17	11	32	25	50	45	62	51	36	28	13	8
11	16	27	28	54	43	85	73	39	21	9	16
8	4	22	19	47	30	60	26	22	6	5	2
14	12	44	30	55	56	76	43	25	18	6	7
17	8	13	20	50	37	67	37	27	25	7	5
6	8	29	24	50	42	46	40	22	25	6	7
11	6	27	38	42	47	75	55	36	20	8	11
17	10	19	21	53	40	64	44	18	21	9	9
17	11	28	27	47	40	50	60	23	24	6	10
13	14	24	28	50	36	49	53	21	22	6	5
15	10	25	23	29	32	35	45	17	25	4	8
13	18	23	32	60	39	73	45	23	28	10	8
17	20	40	32	103	85	125	67	50	28	15	12
12	15	29	33	82	80	102	90	35	22	7	9
14	21	46	42	121	91	127	78	39	25	9	12
13	8	31	23	76	60	110	83	32	29	5	6
9	12	29	18	68	59	87	57	32	27	4	3
24	10	21	29	72	55	85	62	29	32	6	8
7	15	15	26	79	42	101	69	25	25	8	9
10	3	18	21	80	44	97	43	26	14	4	4
12	6	12	19	70	54	95	64	25	18	4	8
8	6	19	21	53	43	87	59	25	19	9	3
13	11	21	31	75	50	82	48	19	18	11	5
12	6	25	19	66	59	106	59	16	23	5	4
7	6	17	13	75	39	103	64	27	22	5	3
5	5	20	19	49	35	95	51	23	21	2	1
8	4	16	14	55	36	103	41	19	19	6	1
9	5	20	22	36	31	98	42	14	16	3	1
5	9	12	19	53	26	91	45	27	9	...	3
5	4	27	13	89	35	105	52	23	16	4	3
3	2	10	16	39	26	96	65	23	12	2	...
9	8	21	11	53	34	124	65	24	19	13	1
11	9	14	19	58	52	133	61	24	19	6	6
8	4	12	22	61	36	150	58	27	11	4	6
7	7	24	28	60	30	95	61	19	9	6	4
10	12	9	13	52	30	95	43	24	13	5	3
6	4	13	18	54	35	82	60	23	10	1	4
6	7	20	23	65	42	110	53	19	13	7	4
9	2	24	19	72	33	147	55	32	18	7	2
4	5	17	7	41	30	109	44	18	9	3	4
11	5	25	11	55	20	112	42	30	11	2	1
7	2	14	12	49	30	96	55	30	11	3	1
5	8	16	20	45	30	93	39	23	12	3	1
2	4	8	13	31	27	74	24	21	9	2	3

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Measles in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	93	60	15	13	45	21	24	20
1867.....	272	227	66	42	113	97	70	75
1868.....	98	102	38	27	31	35	23	30
1869.....	271	255	74	62	102	95	83	74
1870.....	165	133	42	22	57	51	54	49
1871.....	213	196	60	42	78	76	61	67
1872.....	244	219	68	61	84	72	79	69
1873.....	141	165	40	50	46	59	43	46
1874.....	167	152	49	46	60	49	45	40
1875.....	76	91	12	22	31	35	25	26
1876.....	194	168	44	40	68	61	59	55
1877.....	87	68	34	14	27	25	20	20
1878.....	134	138	39	42	45	38	41	44
1879.....	130	114	33	16	48	47	36	38
1880.....	256	223	82	53	86	81	75	71
1881.....	210	219	52	62	71	73	70	67
1882.....	443	470	113	131	149	150	145	147
1883.....	371	345	109	83	131	136	91	90
1884.....	415	347	108	105	163	120	119	99
1885.....	375	361	103	107	145	140	99	86
1886.....	346	322	93	77	156	127	76	95
1887.....	387	380	119	110	138	140	109	101
1888.....	325	266	100	87	116	103	87	63
1889.....	234	236	66	55	95	89	51	76
1890.....	385	345	121	99	139	141	105	87
1891.....	316	347	82	94	116	138	95	102
1892.....	451	413	151	111	166	150	113	122
1893.....	202	191	57	54	85	67	47	59
1894.....	298	286	96	88	108	94	73	85
1895.....	374	419	84	108	167	157	105	132
1896.....	355	359	99	88	119	133	118	116
1897.....	192	199	53	55	80	79	52	50
1898.....	252	194	76	48	112	88	58	49
1899.....	202	177	60	35	81	90	45	46
1900.....	238	232	60	56	95	101	67	53
1901.....	150	122	37	24	53	48	48	40
1902.....	240	222	76	50	87	82	61	73
1903.....	167	154	58	43	69	62	32	41
1904.....	282	274	79	66	103	121	76	75
1905.....	170	144	60	37	72	61	31	34
1906.....	326	336	88	98	133	132	84	91
1907.....	225	205	74	59	91	81	39	54
1908.....	345	297	108	84	144	119	76	75
1909.....	219	227	68	74	87	84	54	59
1910.....	182	145	52	37	88	52	33	47
1911.....	256	236	65	66	113	101	63	53
1912.....	228	187	70	52	91	72	56	50

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
84	54	9	5	....	....	...	I	...	...	...	...
249	211	22	12	I	....	...	I	...	...	...	...
92	92	6	8	....	2	...	...	...	...	...	...
259	231	11	20	....	4	I	...	...	...	...	...
153	122	11	10	....	....	I	I	...	...	...	...
199	185	14	8	....	3	...	...	...	...	...	...
231	202	12	15	I	I	...	I	...	...	...	...
129	155	10	7	I	I	I	2	...	...	...	...
154	135	11	12	2	I	...	4	...	...	...	...
68	83	8	8	....	....	...	...	...	...	...	...
171	156	22	9	....	I	I	2	...	...	...	...
81	59	6	8	....	....	...	I	...	...	...	...
125	124	8	11	....	I	I	2	...	...	...	...
117	101	12	12	....	I	I	...	...	...	...	...
243	205	13	17	....	....	...	I	...	...	...	...
193	202	16	14	....	2	I	I	...	...	...	...
407	428	33	33	3	3	...	6	...	...	...	...
331	309	35	28	3	3	2	5	...	...	...	...
390	324	23	19	....	2	I	2	I	...	...	...
347	333	26	24	....	3	I	I	I	...	...	...
325	299	16	22	2	I	3	...	...	...	...	...
366	351	16	22	3	4	2	2	...	I	...	...
303	253	19	8	....	2	3	2	...	I	...	...
212	220	18	14	4	....	...	2	...	...	...	...
365	327	16	16	....	....	3	I	I	...	...	I
293	334	18	12	3	....	2	I	...	...	...	...
430	383	18	27	I	I	I	2	I	...	...	...
189	180	9	11	I	....	3	...	...	...	...	...
277	267	20	15	....	3	I	I	...	...	...	...
356	397	15	20	I	I	2	I	...	...	...	...
336	337	16	16	2	3	I	2	...	I	...	...
185	184	6	12	....	2	I	I	...	...	...	...
246	185	6	5	....	2	...	2	...	...	...	...
186	171	16	5	....	....	...	I	...	...	...	...
222	212	15	15	....	2	...	2	I	I	...	...
138	112	11	7	....	I	...	2	I	...	...	...
224	205	13	11	I	2	I	2	I	2	...	...
159	146	5	8	2	....	I	...	...	...	...	...
258	262	17	9	3	2	4	I	...	...	...	...
163	132	5	10	....	2	I	...	I	...	...	...
305	321	14	13	4	....	3	2	...	...	...	...
204	194	12	8	2	2	7	I	...	...	...	...
328	278	15	18	I	I	I	...	...	...	...	...
209	217	9	8	I	I	...	I	...	...	...	...
173	136	9	7	....	I	...	I	...	...	...	...
241	220	11	16	2	....	2	...	...	...	...	...
217	174	9	12	2	I	...	...	...	...	...	...

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Scarlet Fever in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	420	386	36	32	76	94	210	178
1867.....	328	327	25	27	54	48	179	182
1868.....	417	444	34	29	73	68	200	205
1869.....	488	478	36	47	105	92	246	223
1870.....	499	476	39	43	102	88	235	246
1871.....	397	394	28	22	69	51	205	220
1872.....	521	469	43	31	91	69	249	242
1873.....	570	475	37	39	99	72	297	224
1874.....	476	403	34	29	79	56	234	181
1875.....	262	252	30	19	52	39	115	117
1876.....	447	444	32	27	84	76	222	208
1877.....	489	494	32	34	85	75	236	253
1878.....	516	583	24	36	106	100	265	290
1879.....	782	695	52	33	145	135	404	351
1880.....	323	295	18	15	66	54	180	152
1881.....	956	1,008	47	50	164	152	467	492
1882.....	1,072	994	63	53	196	142	529	489
1883.....	367	377	36	31	68	63	167	174
1884.....	314	294	30	25	67	55	133	125
1885.....	295	264	29	21	67	52	129	118
1886.....	198	173	14	10	46	34	101	96
1887.....	297	292	13	12	57	58	169	151
1888.....	689	672	48	39	113	100	347	351
1889.....	622	620	23	43	131	95	325	298
1890.....	201	207	9	14	35	40	99	102
1891.....	616	604	40	26	105	95	319	302
1892.....	482	495	39	29	63	74	244	235
1893.....	285	266	24	23	40	40	142	127
1894.....	263	278	17	14	50	39	127	136
1895.....	248	220	16	12	34	41	149	105
1896.....	203	199	8	12	34	25	106	105
1897.....	265	235	10	15	56	33	127	124
1898.....	248	275	18	18	48	40	119	151
1899.....	161	171	10	8	27	32	83	81
1900.....	186	129	22	6	40	22	77	62
1901.....	322	313	11	18	47	39	151	138
1902.....	337	298	20	15	47	48	169	130
1903.....	231	234	9	10	41	35	91	101
1904.....	259	275	15	12	37	43	123	111
1905.....	137	134	12	4	19	16	64	58
1906.....	110	102	4	11	16	9	48	43
1907.....	210	211	8	6	24	26	99	88
1908.....	415	386	18	24	60	53	191	142
1909.....	206	202	19	11	39	31	87	92
1910.....	264	259	14	11	41	37	119	118
1911.....	200	215	8	6	24	33	104	89
1912.....	191	177	9	8	47	29	83	76

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
322	304	96	77	2	3	...	2	...	...	...	...
258	257	63	68	4	1	3	1	...	...	...	...
307	302	103	119	3	10	4	10	...	3	...	...
387	362	88	106	10	5	3	5	...	...	...	...
376	377	116	88	5	8	2	3	...	...	...	...
302	293	85	91	5	7	5	3	...	...	...	...
383	342	122	109	4	6	12	12	...	...	...	...
433	335	127	124	7	11	3	5	...	...	...	...
347	266	119	117	5	11	4	9	I	...	...	...
197	175	55	64	8	9	2	4	...	...	...	...
338	311	103	122	2	7	4	4	...	...	...	...
353	362	131	123	4	4	...	5	I	...	...	...
395	426	111	143	4	7	6	4	...	2	...	I
601	519	173	161	8	7	...	8	...	...	...	...
264	221	54	70	2	2	3	2	...	...	...	...
678	694	258	278	9	19	10	15	I	I	...	I
788	684	240	262	24	25	18	23	2	...	...	...
271	268	88	84	5	16	2	9	I	...	...	...
230	205	64	72	11	14	9	2	...	I	...	...
225	191	63	64	3	6	4	3	...	...	...	...
161	140	33	30	2	...	1	3	...	...	I	...
239	221	52	66	4	3	2	1	...	I	...	...
508	490	163	173	11	3	7	6	...	...	...	...
479	436	118	147	14	23	10	14	I	...	...	...
143	156	55	45	2	2	1	4	...	...	...	...
464	423	136	165	11	10	5	5	...	...	...	I
346	338	118	131	12	16	6	7	...	2	...	I
206	190	69	68	6	4	4	4	...	...	...	...
194	180	58	72	7	11	3	6	I	...	...	...
199	158	42	57	4	1	3	4	...	...	...	...
148	142	53	52	....	1	2	4	...	...	...	...
193	172	69	59	....	4	1	...	2	...	...	...
185	209	56	56	2	7	5	3	...	...	...	...
120	121	38	48	3	2	...	...	...	...	...	...
139	90	38	32	2	6	7	1	...	...	...	...
209	195	100	102	7	7	5	8	I	I	...	...
236	193	88	90	8	8	5	6	...	I	...	...
141	146	77	72	7	7	6	9	...	...	...	...
175	166	66	90	11	12	7	6	...	I	...	...
95	78	32	45	8	5	2	5	...	I	...	...
68	63	35	33	4	5	3	1	...	...	...	...
131	120	65	76	7	10	5	5	2	...	...	...
269	219	123	136	14	14	8	16	I	I	...	...
145	134	51	52	8	8	2	8	...	...	...	...
174	166	65	62	15	14	8	14	2	3	...	...
136	128	52	60	3	18	8	9	I	...	...	...
139	113	43	55	6	2	1	7	I	...	I	...

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Smallpox in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	29	15	6	1	3	4	1	2
1867.....	12	7	3	3	....	....	2	....
1868.....	15	11	4	4	....	2	5	1
1869.....	104	99	19	28	18	13	22	27
1870.....	167	126	32	37	17	10	26	24
1871.....	454	351	74	58	34	33	53	43
1872.....	548	381	85	60	40	38	60	52
1873.....	67	50	15	16	1	4	2	3
*1874.....	281	203	57	42	33	31	45	28
1875.....	709	571	114	110	86	70	110	108
1876.....	179	136	25	25	13	11	19	26
1877.....	10	4	....	1	1	....	1	....
1878.....	1	1	....	1	....	....	....	....
1879.....	13	12	2	1	2	3	5	1
1880.....	19	12	3	2	2	3	....	....
1881.....	262	189	25	39	28	22	34	34
1882.....	142	117	21	18	10	14	32	21
1883.....	8	4	....	1	1	....	....	....
1884.....	....	....	....	....	....	....	....	....
1885.....	16	10	3	1	....	1	5	4
1886.....	22	9	4	4	1	....	3	3
1887.....	62	37	11	7	4	6	7	9
1888.....	58	23	8	5	4	3	4	4
1889.....	1	....	....	....	....	....	....	....
1890.....	2	....	....	....	....	....	....	....
1891.....	2	....	....	....	....	....	....	....
1892.....	48	33	10	10	4	3	7	5
1893.....	60	42	7	10	6	4	7	7
1894.....	97	57	9	13	9	9	7	16
1895.....	7	3	1	....	1	....	....	....
1896.....	1	....	....	....	....	....	....	....
1897.....	14	10	....	3	4	....	3	3
1898.....	1	....	....	....	....	....	....	....
1899.....	11	7	2	2	1	1	....	1
1900.....	6	6	1	1	....	1	....	1
1901.....	244	155	36	37	19	26	42	31
1902.....	139	79	9	11	5	5	16	14
1903.....	1	2	....	....	....	....	....	....
1904.....	1	....	....	....	....	....	....	....
1905.....	....	1	....	....	....	....	....	....
1906.....	....	....	....	....	....	....	....	....
1907.....	1	....	....	....	....	....	....	....
1908.....	....	....	....	....	....	....	....	....
1909.....	2	....	....	....	....	....	....	....
1910.....	2	2	1	....	....	....	....	....
1911.....	....	....	....	....	....	....	....	....
1912.....	....	....	....	....	....	....	....	....

* Vaccinating corps organized September 29, 1874, in accordance with act of Legislature passed June 15, 1874.

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
10	7	1	1	4	2	10	4	4	1	...	...
5	3	...	2	3	1	3	1	1	...	...	...
9	7	...	...	...	1	5	2	1	1	...	...
59	68	9	11	6	13	23	7	6	...	1	...
75	71	16	14	21	12	44	22	11	6	...	1
161	134	58	58	84	63	131	77	19	17	1	2
185	150	54	52	111	76	168	83	24	16	6	4
18	23	7	3	10	9	26	14	5	1	1	...
135	101	25	26	39	28	72	39	8	7	2	2
310	288	71	70	110	70	181	108	34	30	3	5
57	62	12	12	28	28	64	26	17	8	1	...
2	1	...	...	...	1	5	...	2	2	1	...
...	1	...	...	...	...	1	...	...	...	...	...
9	5	1	3	...	1	2	2	1	1	...	...
5	5	1	...	1	3	10	3	2	1	...	...
87	95	26	26	50	30	78	30	18	7	3	1
63	53	12	16	15	21	40	21	11	5	1	1
1	1	1	...	1	3	3	...	2	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
8	6	4	1	...	1	3	2	1	...	...	...
8	7	3	2	1	...	8	...	2	...	...	...
22	22	4	8	14	4	15	1	6	2	1	...
16	12	3	3	10	1	27	4	2	2	...	1
...	...	...	...	1	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	2	...	...	...
...	...	...	...	...	...	2	...	...	...	...	...
21	18	1	2	5	5	14	6	6	2	1	...
20	21	2	2	9	6	25	11	3	2	1	...
25	38	1	5	14	3	41	9	14	1	2	1
2	...	...	...	1	...	4	3	...	...	...	...
...	...	...	...	1	...	...	...	...	...	...	...
7	6	1	1	3	1	2	2	1	...	...	...
1	...	...	...	...	...	...	...	...	...	...	...
3	4	...	...	4	2	2	1	2	...	...	...
1	3	...	...	1	...	2	2	1	1	1	...
97	94	16	14	19	6	85	27	23	13	4	1
30	30	7	9	12	9	68	23	21	7	1	1
...	1	...	...	...	...	...	1	1	...	...	...
...	...	...	...	...	...	1	...	...	...	...	...
...	...	...	...	...	1	...	...	...	...	...	...
...	...	...	...	...	...	1	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	2	...	...	...	...	...
1	...	...	...	...	2	1	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Whooping Cough in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	48	66	23	27	16	22	8	15
1867.....	65	90	39	45	18	26	8	16
1868.....	89	128	53	64	27	43	8	18
1869.....	152	206	74	98	46	63	26	39
1870.....	79	122	44	61	16	38	18	22
1871.....	196	269	103	136	65	78	26	49
1872.....	261	304	135	143	66	75	50	72
1873.....	117	151	56	79	29	41	31	29
1874.....	214	275	110	151	58	69	45	49
1875.....	185	222	114	123	50	55	19	40
1876.....	178	228	97	113	40	59	35	49
1877.....	189	251	98	112	47	75	39	53
1878.....	159	223	86	113	37	63	33	42
1879.....	253	284	128	132	69	87	49	55
1880.....	134	143	64	60	38	53	30	26
1881.....	135	151	73	63	33	54	23	30
1882.....	289	369	155	187	80	90	46	78
1883.....	169	158	80	88	45	37	35	28
1884.....	226	264	131	139	56	68	30	50
1885.....	216	279	118	127	57	81	39	62
1886.....	261	314	144	159	70	88	40	57
1887.....	87	101	49	48	23	30	13	18
1888.....	238	335	119	163	58	89	47	65
1889.....	285	362	167	173	67	97	49	81
1890.....	213	274	115	133	49	79	40	56
1891.....	168	184	95	96	42	44	28	39
1892.....	156	215	71	104	51	58	32	45
1893.....	249	293	122	126	83	95	39	59
1894.....	103	169	57	76	17	45	26	43
1895.....	216	280	114	127	58	92	38	50
1896.....	189	246	112	113	42	66	29	57
1897.....	132	176	73	87	26	52	31	31
1898.....	198	244	105	116	62	70	28	51
1899.....	158	192	74	99	58	40	25	46
1900.....	143	175	69	78	38	45	32	41
1901.....	65	94	31	43	22	29	11	19
1902.....	175	210	100	111	43	49	28	44
1903.....	76	111	41	57	22	29	13	22
1904.....	50	70	28	31	10	22	8	15
1905.....	105	134	51	70	31	33	20	27
1906.....	95	107	51	54	25	25	17	23
1907.....	107	94	59	55	30	16	17	17
1908.....	56	67	36	38	14	17	4	10
1909.....	111	143	57	76	32	35	16	27
1910.....	77	100	41	54	22	24	12	16
1911.....	116	140	67	60	30	40	14	37
1912.....	73	103	42	44	20	27	8	26

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
47	64	I	2	....	....	...	...	...	...	...	...
65	87	....	3	....	....	...	...	...	...	...	...
88	125	I	3	....	....	...	...	...	...	...	...
146	200	6	6	....	....	...	...	...	...	...	...
78	121	I	I	....	....	...	...	...	...	...	...
194	263	2	6	....	....	...	...	...	...	...	...
251	290	10	14	....	....	...	...	...	...	...	...
116	149	I	I	....	....	...	...	...	I	...	...
213	269	I	4	....	....	...	...	...	I	...	I
183	218	2	4	....	....	...	...	...	...	...	...
172	221	5	6	....	I	I	...	...	...	...	...
184	240	5	11	....	....	...	...	...	...	...	...
156	218	3	4	....	....	...	...	...	I	...	...
246	274	7	10	....	....	...	...	...	...	...	...
132	139	2	4	....	....	...	...	...	...	...	...
129	147	6	4	....	....	...	...	...	...	...	...
281	355	8	13	....	I	...	...	...	...	...	...
160	153	8	3	I	I	...	...	...	I	...	...
217	257	9	7	....	....	...	...	...	...	...	...
214	270	2	9	....	....	...	...	...	...	...	...
254	304	7	10	....	....	...	...	...	...	...	...
85	96	2	4	....	....	...	I	...	...	...	...
224	317	14	17	....	....	...	I	...	...	...	...
283	351	2	11	....	....	...	...	...	...	...	...
204	268	7	6	I	....	I	...	...	...	...	...
165	179	3	4	....	....	...	I	...	...	...	...
154	207	2	8	....	....	...	...	...	...	...	...
244	280	5	12	....	....	...	I	...	...	...	...
100	164	3	5	....	....	...	...	...	...	...	...
210	269	5	10	....	I	I	...	...	...	...	...
183	236	6	10	....	....	...	...	...	...	...	...
130	170	2	6	....	....	...	...	...	...	...	...
195	237	3	....	....	6	...	...	...	...	...	I
157	185	I	6	....	....	...	...	...	I	...	...
139	164	4	9	....	....	...	I	...	I	...	...
64	91	I	2	....	....	...	...	...	...	...	I
171	204	4	6	....	....	...	...	...	...	...	...
76	108	....	3	....	....	...	...	...	...	...	...
46	68	3	2	I	....	...	...	...	...	...	...
102	130	3	3	....	....	...	I	...	...	...	...
93	102	2	5	....	....	...	...	...	...	...	...
106	88	I	6	....	....	...	...	...	...	...	...
54	65	2	I	....	....	...	I	...	...	...	...
105	138	5	5	....	....	...	...	...	...	I	...
75	94	2	5	....	....	...	...	...	I	...	...
111	137	5	3	....	....	...	...	...	...	...	...
70	97	3	5	....	....	...	...	...	I	...	...

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Diphtheria and Croup in

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	416	387	92	71	113	100	168	156
1867.....	299	284	64	61	79	88	123	105
1868.....	327	292	73	43	87	73	125	134
1869.....	413	398	66	68	110	101	192	176
1870.....	364	365	48	50	106	86	162	170
1871.....	359	345	47	37	106	93	168	157
1872.....	557	564	72	57	142	132	263	270
1873.....	949	934	95	96	187	163	433	421
1874.....	1,092	1,167	107	90	227	212	510	509
1875.....	1,516	1,571	145	106	339	330	715	723
1876.....	1,176	1,101	121	103	321	228	528	530
1877.....	761	662	80	61	173	168	371	300
1878.....	767	739	91	53	179	164	353	356
1879.....	598	595	68	53	153	133	284	290
1880.....	1,154	1,146	101	77	280	251	576	571
1881.....	1,673	1,614	165	131	371	344	790	758
1882.....	1,136	1,118	113	102	291	244	510	533
1883.....	836	817	97	77	224	174	356	373
1884.....	939	899	103	69	230	215	424	436
1885.....	1,078	1,102	104	94	256	246	530	551
1886.....	1,393	1,302	159	117	329	291	650	614
1887.....	1,617	1,439	164	99	383	302	772	726
1888.....	1,321	1,232	120	118	325	284	626	577
1889.....	1,181	1,110	136	104	287	273	544	499
1890.....	920	863	99	71	233	188	430	432
1891.....	1,017	953	111	85	232	202	494	465
1892.....	1,119	987	92	67	269	222	580	494
1893.....	1,253	1,305	98	110	300	273	617	612
1894.....	1,464	1,406	125	109	351	301	731	701
1895.....	1,017	959	130	84	247	232	477	449
1896.....	888	875	96	65	241	197	405	430
1897.....	770	820	82	74	196	213	350	354
1898.....	475	448	52	35	150	101	193	203
1899.....	525	560	62	52	133	149	240	257
1900.....	669	607	72	64	147	108	297	279
1901.....	620	607	64	77	172	123	275	283
1902.....	633	509	71	53	179	130	256	213
1903.....	628	604	73	56	151	147	275	264
1904.....	661	611	85	49	183	169	273	264
1905.....	436	424	69	54	111	106	181	180
1906.....	559	424	63	55	172	119	223	171
1907.....	544	471	87	64	157	139	212	186
1908.....	589	508	99	83	186	147	206	193
1909.....	573	492	92	57	175	150	240	200
1910.....	565	469	82	47	171	136	218	171
1911.....	409	392	58	62	129	108	150	151
1912.....	341	313	53	33	108	80	127	131

VITAL STATISTICS.

Former New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
373	327	33	44	4	5	2	5	3	4	I	2
266	254	26	25	....	3	4	2	3	...	...	...
285	250	35	39	I	I	3	I	3	I	...	...
368	345	40	47	I	I	I	4	3	I	...	...
316	306	42	50	3	2	2	5	I	I	...	I
321	287	33	52	2	4	2	I	...	...	I	I
477	459	75	97	3	2	2	3	...	I	...	2
715	680	211	242	9	3	11	3	I	5	2	I
844	811	225	333	8	9	10	8	4	4	I	2
I,199	I,159	297	388	8	10	9	9	3	5	...	...
970	861	187	213	9	11	4	12	5	3	I	I
624	529	123	125	6	5	6	2	I	I	I	...
623	573	135	156	3	3	4	I	2	4	...	2
505	476	86	104	2	7	5	6	...	I	...	I
957	899	189	238	I	3	6	4	I	2	...	...
I,326	I,233	324	347	14	19	7	10	2	4	...	I
914	879	200	219	11	6	7	8	3	4	I	2
677	624	148	165	4	15	7	9	...	4	...	...
757	720	163	166	10	5	5	7	2	I	2	...
890	891	176	200	6	4	5	4	I	2	...	I
I,138	I,022	242	261	4	6	8	10	I	2	...	I
I,319	I,127	272	276	15	19	9	13	2	2	...	2
I,071	979	224	236	12	11	10	4	2	2	2	...
967	876	200	213	5	11	5	8	...	2	4	...
762	691	151	152	I	9	4	9	I	2	I	...
837	752	163	182	6	11	8	4	3	4	...	...
941	783	160	185	9	10	6	5	2	4	I	...
I,015	995	226	283	5	12	2	8	3	5	2	2
I,207	I,111	249	275	4	5	3	11	I	3	...	I
854	765	146	181	5	5	9	6	3	2	...	...
742	692	130	167	2	8	11	7	3	I	...	...
628	641	128	170	8	3	5	5	I	I	...	...
395	339	65	103	4	I	6	5	4	...	I	...
435	458	83	86	I	4	6	9	...	3	...	...
516	451	131	138	9	7	11	10	2	...	...	I
511	483	95	115	5	6	5	3	3	...	I	...
506	396	113	98	5	9	8	6	I	...	...	...
499	467	109	131	8	4	8	2	3	...	I	...
541	482	103	101	6	8	8	13	2	5	I	2
361	340	68	73	3	5	4	5	...	...	...	I
458	345	85	66	6	7	9	3	I	3	...	...
456	389	67	66	4	4	11	11	6	I	...	...
491	423	74	74	11	4	7	5	6	2	...	...
507	407	57	73	7	5	2	5	...	I	...	I
471	354	76	100	6	7	10	4	2	3	...	I
337	321	53	50	6	7	9	12	3	2	I	...
288	244	40	60	5	3	5	3	2	2	I	I

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Pulmonary Tuberculosis in

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	1,791	1,690	41	37	27	30	45	24
1867.....	1,648	1,608	45	32	31	30	21	39
1868.....	1,812	1,602	21	11	34	32	24	25
1869.....	1,748	1,616	2	4	22	21	28	29
1870.....	2,097	1,933	22	16	32	21	30	31
1871.....	2,233	1,953	39	35	40	29	32	29
1872.....	2,176	2,098	26	18	29	29	36	34
1873.....	2,121	2,013	28	19	15	23	30	32
1874.....	2,096	1,938	19	23	21	23	25	21
1875.....	2,200	1,972	22	28	22	21	32	25
1876.....	2,192	2,002	23	21	26	22	22	32
1877.....	2,051	1,993	27	20	23	24	22	30
1878.....	2,256	2,210	44	34	29	26	31	28
1879.....	2,280	2,063	36	28	31	20	28	18
1880.....	2,446	2,260	48	30	23	22	29	19
1881.....	2,913	2,399	39	29	24	28	26	19
1882.....	2,841	2,406	43	48	20	29	28	40
1883.....	2,847	2,443	33	32	26	26	26	29
1884.....	2,835	2,400	57	56	22	18	24	30
1885.....	2,802	2,394	50	41	29	24	36	20
1886.....	3,149	2,328	68	40	35	21	28	24
1887.....	3,000	2,260	55	44	28	41	23	15
1888.....	3,013	2,247	39	40	16	18	23	18
1889.....	2,990	2,189	32	19	30	23	17	17
1890.....	3,160	2,332	30	31	24	23	22	21
1891.....	2,994	2,166	27	25	15	16	19	16
1892.....	2,917	2,116	32	29	29	21	24	23
1893.....	3,075	2,049	31	29	27	17	26	27
1894.....	2,821	1,837	31	20	18	15	24	20
1895.....	3,113	2,092	45	26	29	27	22	16
1896.....	2,991	2,003	24	21	26	15	13	21
1897.....	2,878	1,965	28	23	24	17	13	23
1898.....	2,990	1,967	29	13	18	12	9	19
1899.....	3,247	1,991	37	28	16	13	24	26
1900.....	3,223	2,055	28	11	22	10	27	18
1901.....	3,306	1,927	25	18	19	17	20	18
1902.....	3,025	1,868	14	12	15	13	18	16
1903.....	3,245	2,018	17	8	9	14	15	16
1904.....	3,485	2,026	26	17	16	20	25	18
1905.....	3,596	2,082	36	12	18	24	25	23
1906.....	3,814	2,086	28	20	29	17	24	22
1907.....	3,933	2,097	24	22	20	24	21	21
1908.....	3,800	2,131	26	21	28	19	25	19
1909.....	3,825	2,003	41	30	34	30	22	20
1910.....	3,770	1,986	18	23	22	10	17	16
1911.....	3,885	1,909	24	14	22	18	24	20
1912.....	3,815	1,833	10	25	20	17	26	14

VITAL STATISTICS.

Former New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
113	91	46	65	318	360	813	771	412	289	89	114
97	101	46	37	269	324	779	775	368	294	89	77
79	68	37	45	301	344	869	766	426	292	100	87
52	54	42	40	270	334	857	796	419	286	108	106
84	68	40	52	314	393	995	927	533	382	131	111
111	93	47	47	343	350	1,130	988	494	359	108	116
91	81	37	56	366	378	1,108	1,074	474	385	100	124
73	74	26	52	348	418	1,039	992	507	357	128	120
65	67	35	61	338	344	1,059	966	497	387	102	113
76	74	49	65	368	439	1,084	932	515	345	108	117
71	75	48	68	380	434	1,099	941	483	375	111	109
72	74	32	42	343	450	974	937	516	376	114	114
104	88	25	45	381	456	1,060	1,062	573	431	113	128
95	66	28	44	389	472	1,127	1,006	538	369	103	106
100	71	43	63	432	486	1,196	1,133	561	378	114	129
89	76	47	66	478	499	1,472	1,259	674	385	153	114
91	117	34	59	471	507	1,431	1,117	667	471	147	135
85	87	33	56	487	528	1,416	1,189	698	440	128	143
103	104	36	55	498	460	1,399	1,221	662	428	137	132
115	85	36	63	441	493	1,444	1,213	655	435	111	105
131	85	38	48	488	505	1,618	1,173	721	389	153	128
106	100	43	52	520	476	1,565	1,133	643	378	123	121
78	76	34	66	480	523	1,631	1,111	682	379	108	92
79	59	44	66	462	511	1,599	1,105	700	332	106	116
76	75	22	70	503	498	1,710	1,199	725	405	124	85
61	57	30	62	489	481	1,635	1,116	640	355	139	95
85	73	34	61	479	466	1,547	1,088	654	336	118	92
84	73	35	67	574	469	1,584	1,012	675	337	123	91
73	55	35	47	456	430	1,520	977	636	258	101	70
96	69	21	53	482	488	1,738	1,077	660	318	116	87
63	57	24	56	469	496	1,684	1,014	636	291	115	89
65	63	28	41	484	443	1,573	1,012	633	318	95	88
56	44	28	48	449	393	1,643	1,037	692	344	122	101
77	67	33	50	438	440	1,879	1,051	675	288	145	95
77	39	29	48	415	409	1,830	1,172	734	308	138	79
64	53	29	53	442	380	1,934	1,054	723	302	114	85
47	41	25	48	374	441	1,796	1,029	700	248	83	61
41	38	30	59	436	461	1,896	1,128	759	267	83	65
67	55	46	68	466	498	2,054	1,083	772	268	80	54
79	59	30	78	480	477	2,082	1,114	840	303	85	51
81	59	38	67	454	486	2,110	1,113	1,006	318	125	43
65	67	40	76	500	483	2,145	1,094	1,069	306	114	71
79	59	41	65	492	484	2,111	1,118	971	327	106	78
97	80	31	76	502	429	2,132	1,034	949	327	114	57
57	49	25	55	479	469	2,050	1,056	1,045	294	114	63
70	52	45	71	442	450	2,046	993	1,129	286	153	57
56	56	34	68	458	414	2,046	933	1,097	303	124	59

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Cancer in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	74	195	....	2	....	....	....	2
1867.....	89	204	I	....	....	....	....	....
1868.....	84	231	....	....	....	....	I	I
1869.....	78	226	....	....	....	....	I	I
1870.....	110	245	....	....	....	....	....	....
1871.....	93	242	....	....	....	....	....	I
1872.....	114	278	....	I	....	I	2	I
1873.....	138	287	I	....	2	....	....	2
1874.....	124	292	....	....	I	....	2	....
1875.....	147	277	....	....	....	....	....	....
1876.....	152	307	....	....	I	I	....	I
1877.....	153	342	I	....	....	....	....	....
1878.....	182	388	2	....	....	....	....	....
1879.....	193	379	....	....	....	....	2	....
1880.....	219	440	....	....	I	I	3	I
1881.....	244	462	....	I	....	I	2	3
1882.....	265	467	....	I	I	....	2	I
1883.....	221	457	I	....	....	I	2	I
1884.....	263	468	I	I	....	....	I	2
1885.....	228	526	....	I	....	I	2	....
1886.....	257	522	....	I	....	I	4	2
1887.....	278	554	....	....	....	....	I	....
1888.....	284	586	....	....	I	I	I	I
1889.....	276	572	....	....	I	....	I	....
1890.....	356	598	I	I	....	....	3	2
1891.....	318	584	I	....	I	....	I	....
1892.....	356	640	....	....	....	2	3	2
1893.....	383	610	I	I	2	I	2	2
1894.....	362	660	....	I	....	....	4	2
1895.....	391	639	I	3	2	....	3	4
1896.....	449	692	....	3	I	I	3	2
1897.....	474	743	....	I	....	....	5	I
1898.....	497	763	....	....	....	3	....	4
1899.....	509	812	I	2	....	....	4	....
1900.....	558	915	I	2	I	....	I	I
1901.....	629	946	....	I	....	I	7	2
1902.....	590	946	I	I	2	I	3	6
1903.....	655	1,028	3	I	I	I	3	3
1904.....	710	1,030	I	4	2	2	5	6
1905.....	768	1,066	I	2	I	....	2	3
1906.....	766	1,090	2	2	I	....	I	4
1907.....	839	1,193	5	3	2	I	6	....
1908.....	827	1,193	2	I	I	4	3	3
1909.....	920	1,203	I	5	3	I	4	5
1910.....	982	1,256	2	4	....	....	7	I
1911.....	1,008	1,368	I	2	I	....	I	5
1912.....	1,050	1,447	I	....	2	I	4	2

VITAL STATISTICS.

City of New York, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
....	4	3	2	1	5	13	58	36	96	21	30
I	....	....	2	2	....	26	73	46	97	14	32
I	I	....	I	3	3	20	68	44	109	16	49
I	I	....	....	I	I	21	76	37	111	18	37
....	....	I	2	I	4	23	72	70	122	15	45
....	I	....	3	....	2	22	79	56	127	15	30
2	3	I	....	3	3	23	98	61	131	24	43
3	2	I	....	5	6	38	93	68	142	23	44
3	....	4	I	5	5	23	92	63	149	26	45
....	....	2	I	3	4	25	84	81	149	36	39
I	2	....	I	5	5	31	86	90	149	25	64
I	....	2	I	5	6	33	102	77	163	35	70
2	....	I	I	3	2	37	102	104	209	35	74
2	....	2	I	4	5	39	106	102	184	44	83
4	2	3	....	4	4	45	119	117	235	46	80
2	5	I	I	7	4	49	127	129	239	56	86
3	2	2	....	10	5	58	141	137	235	55	84
3	2	3	2	4	5	36	144	128	219	47	85
2	3	....	I	7	3	46	124	152	237	56	100
2	2	....	5	4	2	45	146	124	287	53	84
4	4	I	2	4	9	53	136	145	262	50	109
I	....	I	3	10	6	63	148	137	309	66	88
2	2	I	I	I	9	57	160	157	304	66	110
2	....	4	I	4	8	52	164	149	297	65	102
4	3	3	I	6	7	70	171	186	298	87	118
3	....	4	4	2	9	70	148	172	306	67	117
3	4	6	....	8	6	60	177	197	337	82	116
5	4	I	4	3	4	87	152	191	319	96	127
4	3	2	4	5	5	65	158	208	345	78	145
6	7	2	5	4	7	65	164	216	316	98	140
4	6	I	2	7	9	93	168	238	350	106	157
5	2	I	2	8	5	83	160	266	407	111	167
....	7	6	....	6	11	90	198	290	389	105	158
5	2	2	6	9	9	81	200	283	428	129	167
3	3	8	I	17	9	93	222	305	465	132	215
7	4	4	....	11	15	129	241	336	487	142	199
6	8	5	3	9	11	122	225	325	491	123	208
7	5	6	3	9	12	118	237	343	551	172	220
8	12	3	4	11	13	126	249	405	519	157	233
4	5	5	5	18	10	143	266	385	544	213	236
4	6	9	2	16	15	135	245	399	598	203	224
13	4	8	6	14	13	141	283	459	646	204	241
6	8	7	6	20	14	156	295	432	617	206	253
8	11	7	3	11	12	151	273	474	634	269	270
9	5	4	4	27	11	142	312	525	642	275	282
3	7	2	7	21	19	147	313	563	710	272	312
7	3	5	6	21	19	166	331	560	755	291	333

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Bronchitis in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	301	256	163	123	46	29	18	24
1867.....	375	320	184	140	81	53	34	25
1868.....	403	400	186	176	63	58	36	45
1869.....	465	412	231	155	71	76	56	48
1870.....	413	442	243	186	52	60	31	44
1871.....	492	472	259	238	79	67	35	44
1872.....	504	536	269	234	75	89	41	36
1873.....	525	543	295	258	79	75	33	42
1874.....	533	532	278	238	68	71	41	47
1875.....	585	526	307	233	97	54	45	44
1876.....	629	585	331	241	89	71	44	44
1877.....	462	571	238	234	64	61	30	39
1878.....	610	574	334	268	97	67	49	42
1879.....	593	670	305	292	75	73	42	43
1880.....	704	671	352	283	84	93	46	48
1881.....	778	733	404	311	108	103	68	69
1882.....	787	796	426	344	110	123	61	80
1883.....	763	672	386	279	100	96	49	37
1884.....	723	762	377	304	99	101	41	40
1885.....	801	804	388	327	129	92	52	47
1886.....	872	829	413	324	122	112	77	68
1887.....	926	912	453	361	114	102	63	79
1888.....	955	937	518	398	102	115	49	63
1889.....	908	906	459	362	137	120	62	56
1890.....	965	1,022	498	447	145	154	78	65
1891.....	924	912	494	403	147	122	59	67
1892.....	930	824	500	385	138	139	78	64
1893.....	756	821	425	408	106	108	62	65
1894.....	675	654	358	307	141	99	61	62
1895.....	790	846	461	406	124	158	63	65
1896.....	656	636	398	323	102	117	55	57
1897.....	537	552	328	258	83	87	40	44
1898.....	553	574	327	283	94	92	29	36
1899.....	582	550	377	279	90	82	38	45
1900.....	545	548	298	261	96	81	45	45
1901.....	433	501	262	244	69	81	34	38
1902.....	498	522	320	280	68	74	34	46
1903.....	413	446	222	206	77	84	34	32
1904.....	505	539	283	250	95	97	39	44
1905.....	411	453	251	229	72	65	26	26
1906.....	346	374	219	181	54	71	15	24
1907.....	224	211	135	102	35	27	7	7
1908.....	167	157	119	89	15	13	7	8
1909.....	280	274	185	175	45	38	13	11
1910.....	232	225	141	127	34	20	12	17
1911.....	188	202	125	120	27	22	5	13
1912.....	167	167	116	107	17	18	14	6

VITAL STATISTICS.

City of New York, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
227	176	6	9	2	2	13	20	27	20	26	29
299	218	8	6	3	6	23	23	25	25	17	42
285	279	10	10	5	1	28	18	33	39	42	53
358	279	7	11	1	1	22	16	39	29	38	76
326	290	7	11	4	5	12	21	29	33	35	82
373	349	12	6	3	5	15	12	30	36	59	64
385	359	5	13	2	4	20	18	40	44	52	98
407	375	8	11	4	6	19	16	34	38	53	97
387	356	5	10	1	5	28	16	50	37	62	108
449	331	6	9	1	1	16	19	48	44	65	122
464	356	8	8	2	4	15	16	47	53	93	148
332	334	11	9	1	1	22	24	36	49	60	154
480	377	10	10	1	3	20	18	37	54	62	112
422	408	13	12	3	2	18	24	53	49	84	175
482	424	12	11	7	2	31	31	68	69	104	134
580	483	17	15	7	4	27	23	46	73	101	135
597	547	11	15	4	6	23	20	62	60	90	148
535	412	13	6	5	4	30	28	59	82	121	140
517	445	10	19	8	6	27	29	64	97	97	166
569	466	11	11	8	16	38	28	71	78	104	205
612	504	14	9	8	9	53	43	81	91	104	173
630	542	12	21	15	15	48	47	99	110	122	177
669	576	14	13	13	8	36	47	106	101	117	192
658	538	13	11	15	23	46	50	73	114	103	170
721	666	19	14	11	16	49	53	86	118	79	155
700	592	15	17	8	9	46	39	74	111	81	144
716	588	17	12	12	10	50	42	70	79	65	93
593	581	7	13	7	14	44	35	54	75	51	103
560	468	7	15	7	11	16	27	40	53	45	80
648	629	11	15	5	3	26	20	47	74	53	105
555	497	10	9	5	4	17	14	37	49	32	63
451	389	6	16	1	4	13	15	30	45	36	83
450	411	7	14	3	5	12	24	37	41	44	79
505	406	9	18	5	4	6	19	28	46	29	57
439	387	8	13	7	6	20	16	26	39	45	87
365	363	8	5	5	8	15	13	13	33	27	79
422	400	5	4	5	3	13	10	25	29	28	76
333	322	6	8	1	5	5	15	33	33	35	63
417	391	6	10	2	2	11	14	34	34	35	88
349	320	4	15	2	4	3	4	20	32	33	78
288	276	2	2	1	3	6	3	13	26	36	64
177	136	4	2	2	....	4	3	2	8	35	62
141	110	4	1	2	2	1	2	4	9	15	33
243	224	....	3	2	....	3	1	8	12	24	34
187	164	1	1	2	....	5	1	8	9	29	50
157	155	1	2	....	2	1	2	4	8	25	33
147	131	3	4	....	....	5	2	2	7	10	23

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Pneumonia in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	764	624	219	194	102	87	75	62
1867.....	773	661	270	182	112	119	79	85
1868.....	870	798	303	263	127	144	78	89
1869.....	1,144	956	318	302	168	152	146	127
1870.....	1,046	790	295	225	146	118	86	69
1871.....	1,022	812	251	228	153	116	102	102
1872.....	1,238	912	320	221	171	122	124	100
1873.....	1,357	971	367	295	170	123	100	100
1874.....	1,335	1,063	356	277	167	135	92	105
1875.....	1,558	1,244	356	299	201	181	106	117
1876.....	1,359	1,183	352	294	194	168	141	114
1877.....	1,171	977	292	268	165	125	103	91
1878.....	1,204	1,084	310	280	200	179	139	126
1879.....	1,411	1,143	351	239	161	161	126	120
1880.....	1,552	1,270	370	293	184	188	150	126
1881.....	1,836	1,425	400	307	232	203	191	157
1882.....	1,976	1,496	441	329	250	210	192	168
1883.....	1,947	1,462	370	305	210	175	146	143
1884.....	1,767	1,392	378	328	216	215	161	124
1885.....	2,043	1,607	398	323	252	196	170	164
1886.....	2,063	1,593	456	353	259	193	148	150
1887.....	2,059	1,618	448	352	232	198	169	177
1888.....	2,422	1,866	480	435	286	232	218	177
1889.....	2,306	1,769	502	422	266	230	187	160
1890.....	2,759	2,230	552	435	310	325	207	209
1891.....	3,258	2,560	739	504	384	343	287	249
1892.....	3,363	2,478	730	598	440	362	274	243
1893.....	3,692	2,795	721	591	371	323	261	243
1894.....	2,712	2,013	660	496	356	286	243	205
1895.....	3,146	2,605	802	609	484	433	272	268
1896.....	3,016	2,337	802	620	445	370	259	246
1897.....	2,585	2,036	736	595	386	307	236	167
1898.....	2,861	2,440	759	607	428	406	259	229
1899.....	2,936	2,482	800	637	441	398	256	259
1900.....	3,715	3,032	953	689	544	491	327	323
1901.....	3,137	2,655	783	631	432	441	242	236
1902.....	3,081	2,760	930	756	502	510	258	290
1903.....	3,437	2,871	841	696	462	405	257	259
1904.....	4,629	3,400	877	763	560	496	299	245
1905.....	3,395	2,744	866	679	469	423	248	214
1906.....	3,705	2,977	1,000	851	577	487	272	233
1907.....	4,119	3,219	1,009	868	543	461	303	265
1908.....	3,206	2,662	910	756	445	390	230	204
1909.....	3,418	2,956	992	849	488	506	270	241
1910.....	3,355	2,810	899	695	440	408	209	236
1911.....	3,299	2,689	886	753	480	388	225	197
1912.....	3,278	2,609	923	742	472	382	219	192

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
396	343	19	17	47	41	123	87	126	79	53	57
461	386	33	24	37	30	95	80	109	77	38	64
508	496	26	27	29	48	139	93	121	80	47	54
632	581	64	39	48	30	164	116	181	97	55	93
527	412	31	26	44	33	183	137	183	100	78	82
506	446	28	39	35	32	183	106	177	105	93	84
615	443	37	57	54	31	224	131	221	142	87	108
637	518	41	42	72	44	277	139	228	127	102	101
615	517	44	45	58	42	252	151	263	165	103	143
663	597	46	42	65	56	334	179	319	177	131	193
687	576	57	43	51	58	234	177	229	168	101	161
560	484	41	38	59	49	206	128	209	160	96	118
649	585	43	42	46	35	170	133	192	149	104	140
638	520	56	51	69	42	261	163	246	194	141	173
704	607	53	59	77	52	293	188	289	211	136	153
823	667	67	72	77	53	360	213	357	227	152	193
883	707	61	69	114	61	429	219	322	261	167	179
726	623	66	73	112	74	448	243	438	251	157	198
755	667	61	66	82	67	388	209	338	234	143	149
820	683	51	57	123	82	454	277	396	315	199	193
863	696	66	70	126	79	463	256	389	268	156	224
849	727	61	69	119	81	472	268	377	283	181	220
984	844	87	81	150	76	537	305	481	334	183	226
955	812	82	59	136	114	581	279	406	313	146	192
1,069	969	84	69	183	127	720	416	516	393	187	256
1,410	1,096	121	84	182	137	719	416	552	484	274	343
1,444	1,203	113	102	191	122	816	378	570	407	229	266
1,353	1,157	99	106	233	145	985	485	769	557	253	345
1,259	987	72	78	139	100	601	319	435	318	206	211
1,558	1,310	93	97	163	124	638	367	463	383	231	324
1,506	1,236	82	79	147	91	594	301	508	368	209	262
1,358	1,069	70	73	108	90	482	259	374	275	193	270
1,446	1,242	76	95	118	97	562	349	415	380	244	277
1,497	1,294	77	80	122	115	536	312	463	366	241	315
1,824	1,503	100	128	180	120	693	384	604	499	314	398
1,457	1,308	93	93	122	115	650	373	541	431	274	335
1,690	1,556	90	115	102	113	487	323	470	336	242	317
1,560	1,360	99	106	137	93	631	377	657	516	353	419
1,736	1,504	122	144	167	108	1,095	428	1,038	668	471	548
1,583	1,316	86	89	123	91	674	308	622	514	307	426
1,849	1,571	88	73	122	72	653	345	655	462	338	454
1,855	1,594	91	74	145	83	787	358	813	551	428	559
1,585	1,350	68	88	113	71	507	306	612	443	321	399
1,750	1,596	88	79	97	79	532	288	570	450	381	464
1,548	1,339	70	68	106	83	544	300	654	515	433	505
1,591	1,338	68	74	85	60	520	288	659	461	376	468
1,614	1,316	65	53	109	83	564	309	595	432	331	416

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Bright's Disease in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	242	170	2	2	2	3	11	4
1867.....	225	178	1	....	2	....	5	1
1868.....	301	233	1	1	3	2	10	9
1869.....	330	227	2	2	3	2	14	7
1870.....	432	355	2	2	5	1	13	7
1871.....	501	446	2	1	3	2	16	3
1872.....	523	426	3	....	3	1	7	7
1873.....	431	445	....	....	2	1	6	11
1874.....	429	399	2	2	2	2	6	8
1875.....	461	448	2	4	....	....	5	5
1876.....	516	442	1	....	1	3	6	4
1877.....	493	430	2	....	2	....	9	5
1878.....	499	420	2	1	2	1	15	3
1879.....	526	501	3	....	1	1	10	8
1880.....	540	489	2	....	2	....	6	1
1881.....	655	532	6	1	2	....	9	4
1882.....	640	601	2	4	1	2	10	11
1883.....	661	534	2	....	4	4	6	2
1884.....	609	554	3	2	3	2	9	8
1885.....	658	530	4	4	1	1	6	2
1886.....	627	583	3	2	2	1	4	6
1887.....	581	547	1	2	2	2	4	5
1888.....	585	562	1	4	2	1	10	7
1889.....	969	794	4	2	4	1	10	5
1890.....	1,089	935	1	2	1	....	8	7
1891.....	1,153	963	5	2	2	1	12	8
1892.....	1,078	913	6	3	4	1	8	8
1893.....	1,140	931	1	1	1	1	9	5
1894.....	1,023	856	1	1	1	1	10	3
1895.....	1,082	937	2	1	1	3	1	7
1896.....	1,173	1,022	1	3	5	3	3	3
1897.....	1,054	1,005	2	....	1	....	4	6
1898.....	1,304	1,122	1	2	3	1	5	1
1899.....	1,496	1,213	5	3	2	1	9	3
1900.....	1,521	1,403	6	6	8	3	15	7
1901.....	1,601	1,350	22	10	6	6	19	15
1902.....	1,542	1,272	14	7	4	2	16	10
1903.....	1,522	1,296	1	3	2	2	8	2
1904.....	1,665	1,481	4	6	1	1	3	4
1905.....	1,690	1,485	2	5	....	1	2	....
1906.....	1,811	1,421	1	1	....	....	4	....
1907.....	1,626	1,305	1	2	4	1	3	3
1908.....	1,453	1,141	3	1	3	1	5	3
1909.....	1,413	1,402	15	7	9	6	21	20
1910.....	1,639	1,399	16	10	4	4	11	15
1911.....	1,580	1,294	14	23	8	7	8	15
1912.....	1,730	1,514	12	11	6	8	16	12

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
15	9	14	11	23	26	94	53	76	47	20	24
8	1	11	6	18	29	84	87	86	44	18	11
14	12	8	10	25	25	122	100	89	56	43	30
19	11	21	19	25	31	117	71	112	66	36	29
20	10	14	5	39	43	144	139	150	115	65	43
21	6	14	14	29	33	180	188	184	159	73	46
13	8	16	21	36	35	201	168	185	140	72	54
8	12	13	9	27	36	158	182	173	149	52	57
10	12	12	11	18	36	146	163	185	113	58	64
7	9	7	9	27	42	166	175	193	152	61	61
8	7	16	9	27	31	183	165	203	171	79	59
13	5	18	15	22	31	173	166	194	142	73	71
19	5	17	14	29	37	158	130	196	157	80	77
14	9	14	14	36	35	181	185	208	183	73	75
10	1	15	10	24	28	179	180	233	186	79	84
17	5	15	13	31	28	204	179	275	208	113	99
13	17	12	12	28	41	230	204	259	218	98	109
12	6	14	16	28	28	229	172	266	211	112	101
15	12	14	12	23	44	190	175	259	210	108	101
11	7	14	12	26	45	197	159	278	220	132	87
9	9	6	8	27	24	191	175	266	229	128	138
7	9	13	8	28	27	182	187	227	204	124	112
13	12	18	14	33	41	171	178	244	222	106	95
18	8	11	13	36	49	313	241	408	305	183	178
10	9	10	6	34	57	366	269	450	391	219	203
19	11	14	20	49	38	388	318	468	371	215	205
18	12	23	16	39	61	349	310	460	352	189	162
11	7	13	17	44	40	373	280	463	397	236	190
12	5	18	15	46	47	305	275	438	337	204	177
4	11	8	5	30	35	290	248	493	401	257	237
9	9	8	12	35	39	308	270	513	406	300	286
7	6	9	12	38	49	268	239	454	412	278	287
9	4	4	15	47	44	323	289	579	464	342	306
16	7	14	22	44	49	393	334	654	538	375	293
29	16	9	21	44	45	416	388	678	581	345	352
47	31	26	20	43	47	464	362	653	508	368	382
34	19	15	17	45	51	446	316	666	554	336	315
11	7	15	18	40	40	386	332	651	547	419	352
8	11	5	15	47	50	413	368	749	609	443	428
4	6	10	10	40	38	381	340	744	615	511	476
5	1	7	11	39	46	466	372	802	547	492	444
8	6	10	10	37	33	402	327	737	514	432	415
11	5	11	13	31	31	338	260	681	501	381	331
45	33	19	18	43	40	382	320	714	534	410	457
31	29	27	19	43	39	361	304	732	588	445	420
30	45	15	15	49	32	381	304	683	509	422	389
34	31	22	18	42	32	362	302	748	602	522	529

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Effects of Heat in Former

Year.	Total.		Under 1 Year.		1 Year and Under 2 Years.		2 Years and Under 5 Years.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	221	89	....	1	1	....	....	1
1867.....	4	1	....	....	....	....	....	....
1868.....	159	37	....	4	....	1	....	2
1869.....	24	2	....	....	1	....	....	....
1870.....	181	57	9	4	1	1	1	....
1871.....	17	4	....	1	....	1	1	....
1872.....	220	100	10	6	4	1	3	2
1873.....	25	9	2	3	1	2	3	1
1874.....	15	4	1	....	....	....	....	....
1875.....	11	8	1	1	....	....	....	2
1876.....	153	51	11	2	3	1	3	1
1877.....	16	5	1	1	....	1	1	1
1878.....	40	12	7	2	....	1	....	2
1879.....	34	7	2	2	1	....	....	....
1880.....	78	38	11	10	2	2	2	....
1881.....	108	26	8	6	2	1	4	2
1882.....	78	25	5	8	1	3	2	2
1883.....	60	23	3	9	....	....	5	....
1884.....	75	32	5	5	4	1	2	1
1885.....	108	38	10	5	1	1	2	....
1886.....	31	11	1	2	....	1	1	....
1887.....	173	43	11	10	3	2	2	2
1888.....	66	30	9	10	2	1	2	1
1889.....	24	8	5	5	1	1	1	1
1890.....	47	15	1	4	1	2	....	2
1891.....	78	17	13	6	1	1	....	....
1892.....	226	94	9	9	3	1	3	1
1893.....	32	11	3	2	1	3	....	....
1894.....	89	26	4	4	....	1	2	3
1895.....	53	32	9	9	2	2	4	3
1896.....	549	216	17	13	4	4	1	1
1897.....	30	9	7	1	3	2	1	....
1898.....	270	118	31	32	5	7	1	3
1899.....	55	40	16	9	2	3	2	2
1900.....	140	65	14	22	2	4	1	5
1901.....	506	392	67	38	16	20	7	5
1902.....	15	10	1	3	....	....	....	1
1903.....	41	35	6	11	2	2	1	3
1904.....	13	9	3	3	....	....	1	....
1905.....	100	51	18	13	3	1	6	2
1906.....	42	33	8	7	2	1	1	....
1907.....	22	13	4	2	3	....	....	....
1908.....	44	35	1	9	....	....	....	2
1909.....	45	34	10	3	....	2	4	3
1910.....	47	30	4	7	....	2	1	....
1911.....	238	143	18	15	4	1	....	2
1912.....	26	15	3	1	....	....	....	....

VITAL STATISTICS.

New York City, by Age and Sex.

Total Under 5 Years.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1	2	....	....	24	12	139	50	48	18	9	7
....	....	1	....	1	....	1	1	1	....	....	....
....	7	1	....	23	4	99	18	34	6	2	2
1	....	1	1	2	....	16	1	4	....	....	....
11	5	2	....	15	6	99	29	50	11	4	6
1	2	1	....	1	....	9	1	4	1	1	....
17	9	6	3	16	11	118	49	59	18	4	10
6	6	1	....	5	1	10	1	3	1	....	....
1	....	....	....	1	1	8	2	5	....	....	1
1	3	1	1	....	1	4	2	3	....	2	1
17	4	1	4	5	6	99	16	28	13	5	8
2	3	2	....	1	1	4	....	5	....	2	1
7	5	2	....	2	....	18	3	8	2	3	2
3	2	4	....	....	....	20	2	6	2	1	1
15	12	2	2	8	5	38	5	12	11	3	3
14	9	3	2	12	....	52	4	24	6	3	5
8	13	1	....	7	3	44	4	16	4	2	1
8	9	1	1	5	5	31	3	11	3	4	2
11	7	2	....	8	2	36	9	17	5	1	9
13	6	2	2	4	2	60	11	26	11	3	6
2	3	1	1	4	1	14	1	9	4	1	1
16	14	2	....	14	4	105	10	33	11	3	4
13	12	1	3	5	1	31	4	11	5	5	5
7	7	2	....	2	....	7	....	4	1	2	....
2	8	....	....	5	....	27	2	8	5	5	....
14	7	3	....	7	2	34	2	15	3	5	3
15	11	2	1	11	8	106	32	85	35	7	7
4	5	2	....	3	1	14	3	8	2	1	....
6	8	1	4	9	3	59	4	12	6	2	1
15	14	....	....	4	1	16	6	16	7	2	4
22	18	4	....	20	9	301	58	174	87	28	44
11	3	2	....	2	2	11	2	4	2	....	....
37	42	1	1	5	3	141	22	68	32	18	18
20	14	2	3	4	....	16	7	6	10	7	6
17	31	3	....	9	3	66	3	32	21	13	7
90	63	2	11	10	9	176	66	163	135	65	108
1	4	....	1	1	....	10	....	1	....	2	5
9	16	1	2	2	....	7	4	16	7	6	6
4	3	1	....	1	....	7	1	....	4	....	1
27	16	3	1	5	3	29	8	25	9	11	14
11	8	....	1	1	2	18	5	12	6	....	11
7	2	1	....	1	2	5	2	2	4	6	3
1	11	....	1	2	....	14	....	22	10	5	13
14	8	....	....	1	2	13	3	11	16	6	5
5	9	1	....	3	2	15	6	13	4	10	9
22	18	3	1	4	2	91	22	76	53	42	47
3	1	....	....	1	....	8	1	10	8	4	5

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Suicide in Former New York City, by Age and Sex.

Year.	Total.		5 Years and Under 15 Years.		15 Years and Under 25 Years.		25 Years and Under 45 Years.		45 Years and Under 65 Years.		65 Years and Over.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
1866.....	40	14	.....	.....	6	2	21	8	12	4	1	.....
1867.....	63	19	.....	.....	8	7	37	8	14	3	4	1
1868.....	69	29	3	.....	4	5	35	15	25	9	2	.....
1869.....	76	26	.....	.....	7	2	34	19	31	4	4	1
1870.....	79	22	.....	.....	6	2	39	11	29	8	5	1
1871.....	85	29	.....	2	15	5	40	13	26	6	4	3
1872.....	111	33	1	.....	17	6	56	19	30	7	7	1
1873.....	82	36	1	.....	8	7	54	17	13	10	6	2
1874.....	140	40	1	.....	11	9	77	17	47	12	4	2
1875.....	123	32	.....	.....	12	10	60	12	45	6	6	4
1876.....	114	36	.....	.....	8	4	52	20	48	11	6	1
1877.....	123	25	.....	.....	20	3	62	16	32	6	9	.....
1878.....	116	26	.....	.....	8	6	53	9	49	7	6	4
1879.....	100	17	.....	.....	10	1	53	8	31	7	6	1
1880.....	120	32	.....	.....	15	3	58	20	38	7	9	2
1881.....	133	33	.....	1	9	6	78	11	37	12	9	3
1882.....	161	38	2	.....	16	10	75	17	57	11	11	.....
1883.....	134	27	.....	.....	15	7	27	7	70	11	22	2
1884.....	189	40	.....	.....	17	8	94	20	57	10	21	2
1885.....	167	40	.....	.....	26	9	74	18	60	7	7	6
1886.....	172	51	.....	.....	13	10	82	22	64	17	13	2
1887.....	183	52	.....	.....	23	15	94	22	50	15	16	.....
1888.....	202	45	1	.....	22	14	87	21	80	8	12	2
1889.....	200	44	1	.....	31	13	81	18	71	11	16	2
1890.....	190	49	.....	.....	21	7	100	32	62	9	7	1
1891.....	239	61	.....	.....	24	15	116	29	84	12	15	5
1892.....	202	39	.....	1	17	9	100	18	70	8	15	3
1893.....	256	58	.....	.....	28	18	120	27	84	7	24	6
1894.....	268	63	.....	.....	23	14	136	35	90	10	19	4
1895.....	286	90	.....	.....	23	21	128	49	115	18	20	2
1896.....	295	89	2	.....	31	20	136	47	105	17	21	5
1897.....	322	114	.....	.....	20	30	148	72	127	12	27	.....
1898.....	337	126	1	.....	40	41	164	55	107	25	25	5
1899.....	315	118	1	.....	30	32	156	56	104	23	24	7
1900.....	382	118	.....	.....	32	34	196	60	128	19	26	5
1901.....	327	143	.....	.....	38	30	158	73	106	30	25	10
1902.....	354	123	.....	.....	39	26	177	60	108	30	30	7
1903.....	384	137	.....	.....	30	27	192	78	140	23	22	9
1904.....	417	150	.....	.....	42	36	205	77	141	30	29	7
1905.....	331	91	.....	.....	38	18	161	49	107	22	25	2
1906.....	336	106	1	.....	36	15	155	52	119	36	25	3
1907.....	346	96	.....	.....	44	17	155	49	122	24	25	6
1908.....	500	144	.....	.....	63	26	228	77	171	31	38	10
1909.....	441	131	.....	.....	47	24	195	68	166	26	33	13
1910.....	392	131	.....	.....	57	32	163	54	141	34	31	11
1911.....	380	116	.....	.....	49	25	178	55	127	29	26	7
1912.....	406	125	1	.....	39	22	188	68	154	28	24	7

VITAL STATISTICS.

*Deaths from Typhoid Fever, Former New York City, by Months.**

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	18	13	15	15	14	8	16	28	29	33	24	26	239
1872.....	18	15	26	21	21	21	34	57	51	30	40	30	364
1873.....	22	15	19	14	26	16	16	43	48	25	29	21	294
1874.....	24	16	24	16	10	16	13	25	32	33	39	27	275
1875.....	26	16	19	23	19	18	22	40	68	42	34	20	347
1876.....	21	19	16	20	18	16	21	35	41	29	28	19	283
1877.....	14	21	6	8	26	12	16	33	43	32	35	29	275
1878.....	14	13	6	9	13	7	20	38	35	40	25	25	245
1879.....	18	10	7	11	9	9	10	30	18	28	59	19	178
1880.....	10	17	17	16	12	14	23	22	32	30	29	19	241
1881.....	17	10	27	38	30	18	33	42	72	59	53	47	446
1882.....	23	18	20	17	18	10	29	44	50	70	38	25	362
1883.....	19	18	24	22	15	22	31	63	79	90	66	22	471
1884.....	16	22	16	10	16	18	25	49	62	66	54	35	389
1885.....	16	11	10	14	16	17	19	32	49	50	34	26	294
1886.....	12	9	28	13	9	5	22	37	55	59	43	33	325
1887.....	28	13	21	11	11	16	33	51	53	38	26	22	323
1888.....	12	13	14	17	17	11	35	42	81	52	37	33	364
1889.....	27	15	21	18	17	19	31	71	57	57	40	24	397
1890.....	20	28	14	12	11	11	31	49	64	49	34	29	352
1891.....	14	11	17	13	20	23	28	57	65	56	51	29	384
1892.....	15	25	17	19	23	23	52	53	57	55	31	30	400
1893.....	22	18	29	25	29	23	21	35	42	70	41	26	381
1894.....	22	11	17	18	11	14	28	42	57	46	32	28	326
1895.....	17	16	8	14	13	23	27	37	46	48	37	36	322
1896.....	20	17	11	12	10	13	25	42	38	39	34	36	297
1897.....	19	15	9	10	14	19	29	40	32	40	28	44	299
1898.....	8	12	14	8	11	19	20	56	96	59	42	31	376
1899.....	15	9	14	15	18	11	21	30	40	52	43	26	294
1900.....	27	19	10	10	18	20	30	37	56	52	42	51	372
1901.....	41	19	21	22	18	14	31	40	64	64	39	39	412
1902.....	24	10	17	22	18	20	32	47	42	70	55	42	399
1903.....	25	16	19	23	23	22	23	39	43	48	35	34	350
1904.....	16	15	21	12	18	17	21	41	37	39	30	42	309
1905.....	19	15	17	15	11	16	25	43	49	44	28	28	310
1906.....	13	21	8	25	17	16	27	39	46	64	55	38	369
1907.....	19	30	28	48	40	21	23	38	49	54	41	29	420
1908.....	11	10	14	21	20	12	24	39	48	39	30	23	291
1909.....	19	17	14	11	19	23	19	34	58	48	41	22	325
1910.....	17	16	22	10	11	22	27	31	44	47	34	29	310
1911.....	13	8	10	11	14	24	35	55	49	30	27	19	295
1912.....	17	15	14	7	11	14	22	23	29	32	19	15	218

* Exclusive of typho-malarial fever, excepting 1888 to 1905, when it was included.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Malarial Fevers, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1881.....	26	35	64	56	52	33	50	59	76	66	48	40	605
1882.....	36	28	34	49	39	28	45	63	81	56	44	37	540
1883.....	22	37	54	41	52	31	70	63	44	50	39	22	525
1884.....	27	37	25	18	31	23	37	44	34	57	39	23	395
1885.....	24	39	37	33	36	37	34	41	41	35	24	27	408
1886.....	26	34	37	37	43	25	19	33	29	44	35	32	394
1887.....	25	22	25	23	22	32	32	36	43	33	25	30	348
1888.....	23	23	23	24	22	18	21	21	29	20	26	20	270
1889.....	21	11	11	19	10	15	15	35	26	30	19	16	228
1890.....	17	10	9	8	15	20	12	23	16	15	12	19	176
1891.....	14	8	13	11	11	19	19	23	25	21	13	8	185
1892.....	8	10	15	11	12	16	17	12	21	13	16	10	161
1893.....	7	7	17	11	8	13	12	22	10	7	8	11	133
1894.....	10	3	8	10	15	18	11	15	10	11	9	6	126
1895.....	4	2	7	8	9	9	5	5	11	10	12	8	90
1896.....	7	5	8	9	10	11	9	9	12	22	6	4	112
1897.....	7	6	5	8	12	17	16	8	8	18	5	8	118
1898.....	6	5	5	8	12	7	5	22	27	14	10	5	126
1899.....	1	6	2	7	6	6	14	7	5	10	9	7	80
1900.....	5	5	9	7	12	5	9	12	10	16	11	3	104
1901.....	3	5	2	5	2	6	5	11	23	13	8	10	93
1902.....	4	5	6	4	5	9	10	6	7	9	1	1	67
1903.....	1	2	3	1	10	7	3	2	2	3	4	1	39
1904.....	2	1	3	4	7	5	4	3	2	3	2	2	38
1905.....	1	..	1	..	..	3	5	4	2	..	2	1	19
1906.....	1	..	3	2	..	..	6	5	2	5	2	1	27
1907.....	..	..	1	3	3	..	2	6	1	3	2	..	21
1908.....	..	1	..	..	1	3	2	5	..	1	..	..	13
1909.....	2	..	1	..	1	1	1	1	..	2	1	..	10
1910.....	..	1	1	..	1	..	1	3	3	1	..	..	11
1911.....	..	..	2	1	3	..	1	..	2	6	4	..	19
1912.....	..	..	1	..	..	1	1	1	2	1	..	1	8

In this table typho-malarial fever is included, excepting in 1888 to 1906, during which years it is included in tables of typhoid fever.

VITAL STATISTICS.

Deaths from Measles, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	108	80	53	44	38	24	28	17	4	..	9	4	409
1872.....	13	48	45	46	65	73	84	41	3	14	17	14	463
1873.....	25	29	20	17	36	40	56	23	5	21	13	21	306
1874.....	28	28	38	41	43	43	45	18	15	8	6	6	319
1875.....	8	3	7	6	16	23	27	18	8	5	13	33	167
1876.....	42	63	67	55	45	34	27	2	5	14	5	3	362
1877.....	4	1	4	8	26	28	24	17	7	12	4	20	155
1878.....	36	38	54	56	33	18	10	5	8	2	5	7	272
1879.....	..	1	4	12	11	26	28	24	20	13	31	74	244
1880.....	100	92	69	73	70	21	21	9	7	1	6	10	479
1881.....	18	21	38	35	63	93	38	29	12	5	15	62	429
1882.....	140	142	122	101	140	79	69	25	8	22	21	44	913
1883.....	60	50	81	108	103	92	77	46	16	21	21	41	716
1884.....	36	29	35	41	93	117	124	57	36	26	70	98	762
1885.....	150	119	119	98	84	73	52	17	5	2	11	6	736
1886.....	5	2	8	10	17	26	58	36	21	48	166	271	668
1887.....	293	181	96	43	33	23	29	6	7	10	22	24	767
1888.....	26	23	18	29	54	86	86	55	36	38	42	98	591
1889.....	117	87	73	60	29	29	18	8	3	5	18	23	470
1890.....	24	32	50	109	129	107	63	45	20	28	48	75	730
1891.....	105	63	67	84	82	79	59	26	15	24	14	45	663
1892.....	50	47	77	119	168	160	98	32	25	11	25	52	864
1893.....	38	27	25	27	31	49	36	35	17	11	43	54	393
1894.....	105	106	118	85	45	36	26	5	11	13	10	24	584
1895.....	26	33	65	85	115	156	93	51	20	20	46	83	793
1896.....	93	95	118	126	79	69	44	29	12	14	12	23	714
1897.....	25	33	46	25	40	35	31	21	10	24	51	50	391
1898.....	71	58	82	67	47	33	25	12	11	6	12	22	446
1899.....	33	20	23	30	41	47	39	19	14	22	45	46	379
1900.....	79	103	86	64	42	35	27	16	1	6	2	9	470
1901.....	7	7	13	16	21	21	36	11	8	11	26	95	272
1902.....	87	103	73	57	32	40	24	9	2	6	10	19	462
1903.....	28	36	38	36	39	29	37	13	9	8	26	22	321
1904.....	65	56	92	103	85	53	31	16	12	9	17	17	556
1905.....	17	13	36	31	42	65	40	20	10	7	15	18	314
1906.....	51	79	131	127	98	71	44	13	12	7	14	15	662
1907.....	12	16	26	45	42	67	85	37	16	14	20	50	430
1908.....	74	73	109	119	102	59	41	16	6	6	14	23	642
1909.....	33	44	41	85	75	63	30	19	7	15	11	23	446
1910.....	30	21	40	55	46	36	34	22	16	4	10	13	327
1911.....	19	40	57	53	93	79	56	33	16	9	9	28	492
1912.....	24	39	55	75	85	45	28	19	9	7	9	20	415

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Scarlet Fever, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	107	77	86	73	72	52	66	55	20	47	65	71	791
1872.....	95	107	103	126	131	113	75	27	25	47	65	76	990
1873.....	80	86	78	83	110	86	99	55	49	71	102	146	1,045
1874.....	116	100	114	80	78	81	58	51	52	48	45	56	879
1875.....	71	66	49	55	60	46	34	14	15	20	33	51	514
1876.....	65	80	100	134	108	99	56	26	25	33	74	91	891
1877.....	105	93	95	120	92	102	68	54	52	60	60	82	983
1878.....	111	96	110	97	93	87	57	54	35	60	102	197	1,099
1879.....	251	225	254	186	159	119	90	36	50	31	41	35	1,477
1880.....	34	33	25	38	46	30	20	27	24	54	119	168	618
1881.....	178	176	150	185	194	139	152	108	95	125	145	317	1,964
1882.....	403	401	337	291	234	154	69	44	26	26	37	44	2,066
1883.....	80	65	94	95	129	87	37	27	28	32	35	35	744
1884.....	53	60	64	68	68	54	48	21	25	19	50	78	608
1885.....	72	73	77	77	71	53	35	16	4	14	24	43	559
1886.....	59	43	42	49	44	19	25	15	11	18	23	23	371
1887.....	46	41	54	55	56	55	33	21	30	44	55	99	589
1888.....	109	116	123	136	145	138	84	79	66	65	112	188	1,361
1889.....	221	208	249	229	150	69	30	9	12	19	17	29	1,242
1890.....	47	41	58	36	32	37	24	14	15	12	40	52	408
1891.....	88	115	100	169	155	121	118	64	42	50	73	125	1,220
1892.....	145	134	138	132	144	92	33	20	24	27	36	52	977
1893.....	58	69	79	86	85	53	33	19	11	15	14	29	551
1894.....	44	66	70	78	64	67	34	18	15	15	30	40	541
1895.....	68	65	78	59	53	46	15	13	10	10	16	35	468
1896.....	74	53	37	41	46	26	25	9	12	20	28	31	402
1897.....	39	51	50	51	51	58	36	14	22	32	42	54	500
1898.....	88	66	78	56	71	48	35	9	10	16	13	33	523
1899.....	39	41	52	34	39	41	15	7	9	9	15	31	332
1900.....	32	64	46	47	34	15	17	11	9	8	8	24	315
1901.....	55	61	102	106	100	64	43	19	8	12	33	32	635
1902.....	82	82	70	80	99	70	45	20	16	24	19	28	635
1903.....	46	52	67	73	57	40	26	13	10	12	22	47	465
1904.....	79	84	73	81	66	34	20	11	7	17	31	31	534
1905.....	42	42	51	36	35	22	7	2	3	10	10	11	271
1906.....	21	23	32	19	37	14	11	6	7	6	12	24	212
1907.....	21	31	42	51	57	61	36	22	13	15	28	44	421
1908.....	88	122	136	168	112	73	35	12	10	7	11	27	801
1909.....	44	44	53	47	76	43	23	8	9	6	26	29	408
1910.....	73	95	89	84	71	44	16	7	9	7	12	16	523
1911.....	29	44	74	89	74	42	21	6	7	5	10	14	415
1912.....	16	46	63	80	61	44	20	12	4	6	7	9	368

VITAL STATISTICS.

Deaths from Small-pox, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	24	64	115	110	97	98	88	57	23	23	36	70	805
1872.....	105	105	116	149	185	124	48	14	7	12	31	33	929
1873.....	39	22	7	6	17	12	3	1	..	2	6	2	117
*1874.....	4	7	11	28	34	27	34	34	43	44	78	140	484
1875.....	150	121	101	104	180	178	157	65	42	50	64	68	1,280
1876.....	72	72	50	48	26	26	9	3	2	4	..	3	315
1877.....	1	..	4	4	1	3	1	..	..	..	..	..	14
1878.....	..	..	1	..	1	..	..	..	..	..	..	..	2
1879.....	..	..	..	2	1	8	9	4	..	..	1	..	25
1880.....	..	..	..	..	2	..	2	..	2	2	4	19	31
1881.....	31	20	44	52	77	67	32	30	11	22	20	45	451
1882.....	61	65	51	30	26	18	6	1	..	..	1	..	259
1883.....	..	..	3	5	4	..	..	..	..	..	..	..	12
1884.....	..	..	..	..	..	..	..	..	..	..	..	..	..
1885.....	..	..	..	..	..	3	2	..	5	3	8	3	24
1886.....	5	6	6	6	5	2	..	..	..	..	1	..	31
1887.....	10	15	10	12	26	5	7	4	5	2	2	1	99
1888.....	4	3	14	28	18	10	1	1	..	1	1	..	81
1889.....	..	1	..	..	..	..	..	..	..	..	..	..	1
1890.....	..	..	2	..	..	..	..	..	..	..	..	..	2
1891.....	..	..	1	1	..	..	..	..	..	..	..	..	2
1892.....	1	6	3	9	9	8	7	14	5	10	7	2	81
1893.....	3	7	11	11	9	7	2	2	19	9	9	13	102
1894.....	13	27	21	20	20	15	10	4	8	2	10	4	154
1895.....	3	4	..	..	1	..	..	..	..	2	..	..	10
1896.....	..	..	..	..	1	..	..	..	..	..	..	..	1
1897.....	..	..	2	7	6	6	3	..	..	..	..	..	24
1898.....	..	..	..	..	..	..	..	..	..	..	1	..	1
1899.....	1	1	1	1	5	7	1	..	..	1	..	..	18
1900.....	1	..	..	1	1	1	..	2	..	1	5	..	12
1901.....	9	32	37	38	62	71	80	33	9	11	7	10	399
1902.....	35	39	28	38	20	39	15	4	..	..	..	..	218
1903.....	2	..	..	1	..	..	..	..	..	..	..	..	3
1904.....	..	..	..	..	..	1	..	..	..	..	..	..	1
1905.....	..	..	..	..	..	..	..	1	..	..	..	..	1
1906.....	..	..	..	..	..	..	..	..	..	..	..	..	..
1907.....	..	..	..	..	..	..	1	..	..	..	..	..	1
1908.....	..	..	..	..	..	..	..	..	..	..	..	..	..
1909.....	..	1	..	..	..	..	..	..	..	1	..	..	2
1910.....	..	..	..	2	1	1	..	..	..	..	..	..	4
1911.....	..	..	..	..	..	..	..	..	..	..	..	..	..
1912.....	..	..	..	..	..	..	..	..	..	..	..	..	..

* Vaccinating Corps organized September 27, 1874.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Whooping Cough, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	17	14	22	24	27	15	26	53	81	71	49	66	465
1872.....	84	95	74	81	64	43	33	25	24	21	9	12	565
1873.....	14	22	35	24	19	14	23	27	26	25	18	21	268
1874.....	26	38	43	36	28	38	47	59	57	46	35	36	489
1875.....	49	43	40	36	31	31	42	31	37	25	19	23	407
1876.....	37	56	46	44	36	18	25	46	33	21	24	20	406
1877.....	23	30	39	35	24	26	55	68	61	39	16	24	440
1878.....	25	18	20	18	35	35	44	50	44	43	24	26	382
1879.....	67	61	91	59	54	40	32	25	37	27	23	21	537
1880.....	33	24	25	22	20	26	25	23	23	21	18	17	277
1881.....	15	19	19	16	13	17	22	36	37	30	29	33	286
1882.....	39	44	76	72	67	56	75	75	56	33	35	30	658
1883.....	25	32	25	31	27	19	36	43	28	21	16	14	317
1884.....	22	26	23	32	44	28	64	55	72	51	42	31	490
1885.....	28	27	35	26	24	22	49	81	56	35	36	76	495
1886.....	70	69	87	71	44	35	60	48	37	30	13	11	575
1887.....	32	11	16	10	12	11	25	24	22	8	7	10	188
1888.....	25	21	29	28	26	40	70	81	82	60	41	70	573
1889.....	53	53	83	85	67	53	57	61	41	33	28	33	647
1890.....	46	42	36	30	26	46	61	57	50	37	26	30	487
1891.....	52	36	43	47	40	25	18	21	21	19	13	17	352
1892.....	22	16	21	33	26	25	52	58	31	32	29	26	371
1893.....	39	64	90	65	55	35	45	44	34	19	16	36	542
1894.....	19	24	29	39	27	16	26	34	14	18	6	20	272
1895.....	27	30	33	48	30	44	69	64	60	39	22	30	496
1896.....	33	16	44	50	51	33	51	50	49	26	14	18	435
1897.....	22	27	38	36	24	22	29	29	25	27	10	19	308
1898.....	13	23	42	37	38	38	74	66	44	24	22	21	442
1899.....	25	32	28	20	22	28	42	44	36	24	21	28	350
1900.....	34	38	34	38	31	21	31	27	21	16	14	13	318
1901.....	10	12	14	11	12	8	13	23	13	13	14	16	159
1902.....	29	37	30	47	37	39	44	39	37	15	21	10	385
1903.....	24	16	12	16	24	15	8	22	20	10	10	10	187
1904.....	4	10	15	11	9	9	15	13	10	5	8	11	120
1905.....	10	18	25	38	26	19	29	34	15	13	3	9	239
1906.....	10	5	10	11	19	14	18	33	22	27	11	22	202
1907.....	17	12	21	23	17	28	16	34	12	9	5	7	201
1908.....	5	7	7	1	13	11	15	16	17	11	6	14	123
1909.....	14	10	21	25	33	25	31	34	26	14	15	6	254
1910.....	6	9	12	20	18	11	30	21	12	12	15	11	177
1911.....	17	22	22	27	29	24	26	26	28	25	2	8	256
1912.....	10	7	13	7	25	10	19	24	22	14	10	15	176

VITAL STATISTICS.

Deaths from Diphtheria and Croup, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	83	63	74	68	52	35	29	35	41	63	81	80	704
1872.....	105	94	99	67	76	54	39	51	90	124	160	162	1,121
1873.....	151	144	116	115	108	116	124	123	176	223	245	242	1,883
1874.....	201	172	163	177	134	127	132	135	133	253	320	312	2,259
1875.....	321	272	269	251	215	243	201	173	220	283	299	340	3,087
1876.....	350	298	271	210	222	154	96	95	97	161	142	181	2,277
1877.....	108	120	134	116	105	71	84	65	121	161	175	163	1,423
1878.....	197	154	175	144	121	98	65	61	76	119	144	152	1,506
1879.....	143	113	108	67	78	66	44	60	69	122	173	150	1,193
1880.....	142	149	135	149	130	114	133	140	182	307	373	346	2,300
1881.....	328	254	288	273	271	289	257	236	227	283	268	313	3,287
1882.....	323	248	289	234	226	179	126	102	79	137	149	162	2,254
1883.....	180	140	153	149	140	114	96	114	115	136	151	165	1,653
1884.....	128	147	131	147	145	136	100	109	97	209	237	252	1,838
1885.....	178	209	190	181	181	177	151	117	135	155	213	293	2,180
1886.....	252	236	236	196	198	194	193	153	133	254	314	336	2,695
1887.....	321	263	285	271	323	275	181	125	190	228	279	315	3,056
1888.....	310	248	308	213	289	221	183	145	97	132	174	233	2,553
1889.....	269	254	277	289	247	206	137	110	100	123	122	157	2,291
1890.....	156	176	188	186	167	141	125	92	85	112	160	195	1,783
1891.....	156	185	194	166	131	133	134	111	139	176	209	236	1,970
1892.....	214	182	202	229	203	121	158	106	125	158	191	217	2,106
1893.....	239	198	241	193	206	204	188	146	148	214	279	302	2,558
1894.....	350	260	278	275	336	272	212	159	142	170	204	212	2,870
1895.....	219	175	190	187	204	171	155	137	105	112	145	176	1,976
1896.....	208	187	158	146	192	165	126	104	105	87	127	158	1,763
1897.....	162	133	167	159	195	164	127	94	89	85	107	108	1,590
1898.....	91	108	111	94	88	56	69	39	41	67	71	88	923
1899.....	97	85	98	95	94	99	82	74	53	86	104	118	1,085
1900.....	143	151	131	137	152	106	82	58	42	56	103	115	1,276
1901.....	130	99	136	137	123	117	70	55	59	78	97	126	1,227
1902.....	122	119	100	129	106	99	87	66	45	64	89	116	1,142
1903.....	128	103	120	120	132	108	95	66	67	72	88	133	1,232
1904.....	147	130	126	178	143	110	73	62	65	59	55	124	1,272
1905.....	100	95	79	100	95	65	62	50	43	46	47	73	860
1906.....	107	127	141	116	119	79	65	20	27	41	69	72	983
1907.....	109	109	77	96	94	107	86	60	52	62	63	100	1,015
1908.....	133	135	146	143	103	82	68	38	46	46	66	91	1,097
1909.....	127	123	132	119	92	80	68	35	45	50	91	103	1,065
1910.....	121	116	132	131	119	96	73	53	34	40	65	54	1,034
1911.....	91	87	101	95	112	61	48	44	19	43	48	52	801
1912.....	61	78	73	61	73	54	46	32	25	34	53	64	654

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Pulmonary Tuberculosis, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	403	375	407	371	345	292	347	306	328	345	308	359	4,186
1872.....	343	390	434	380	359	310	351	345	319	346	324	373	4,274
1873.....	388	354	405	385	371	300	295	307	333	318	343	335	4,134
1874.....	313	340	356	375	350	270	284	322	331	364	344	385	4,034
1875.....	386	374	428	428	333	274	325	309	317	333	303	362	4,172
1876.....	358	350	415	344	339	309	373	324	347	358	337	340	4,194
1877.....	356	337	361	357	342	297	338	323	318	341	329	345	4,044
1878.....	391	355	417	353	355	345	354	384	342	393	374	403	4,466
1879.....	417	389	408	393	332	301	346	286	334	367	389	381	4,343
1880.....	402	375	412	394	365	351	385	380	376	408	399	459	4,706
1881.....	494	424	468	484	450	357	407	396	428	465	477	462	5,312
1882.....	456	437	479	491	474	376	443	383	400	464	404	440	5,247
1883.....	463	440	553	493	473	363	450	396	371	406	409	473	5,290
1884.....	412	432	470	447	433	416	406	419	397	467	470	466	5,235
1885.....	475	450	530	475	443	376	401	415	415	439	380	397	5,196
1886.....	490	412	521	511	495	423	439	443	374	432	459	478	5,477
1887.....	522	438	486	504	437	411	390	386	404	425	419	438	5,260
1888.....	412	445	588	520	463	351	413	408	350	461	398	451	5,260
1889.....	445	430	485	426	417	376	422	440	422	412	384	520	5,179
1890.....	797	512	476	418	422	368	428	413	424	400	394	440	5,492
1891.....	468	378	521	508	478	344	387	399	421	414	407	435	5,160
1892.....	468	415	511	516	451	363	407	362	389	360	364	427	5,033
1893.....	412	402	567	554	474	394	393	418	333	386	367	424	5,124
1894.....	421	389	438	368	388	366	395	381	350	358	384	420	4,658
1895.....	489	464	502	458	414	365	389	442	401	450	412	419	5,205
1896.....	460	415	466	468	495	409	364	404	408	383	326	396	4,994
1897.....	422	459	406	400	381	363	392	420	390	444	369	397	4,843
1898.....	387	358	443	416	439	376	423	379	410	413	437	476	4,957
1899.....	493	475	514	465	435	394	416	416	353	410	433	434	5,238
1900.....	440	442	509	527	508	420	423	399	370	427	386	427	5,278
1901.....	529	440	492	477	435	421	410	410	398	428	412	381	5,233
1902.....	412	430	468	436	406	401	404	366	357	434	394	385	4,893
1903.....	502	481	494	482	454	374	391	406	379	409	418	473	5,263
1904.....	453	487	553	550	534	397	439	436	382	416	444	420	5,511
1905.....	485	449	580	531	502	449	427	416	440	444	465	490	5,678
1906.....	502	487	560	510	520	486	460	479	428	486	467	515	5,900
1907.....	546	540	625	606	525	476	451	442	383	443	456	537	6,030
1908.....	531	556	554	559	488	468	477	417	465	449	468	499	5,931
1909.....	493	468	574	595	531	508	451	414	392	434	462	506	5,828
1910.....	512	496	580	555	500	424	435	444	450	444	411	505	5,756
1911.....	543	514	564	566	536	434	417	451	430	451	438	450	5,794
1912.....	521	531	585	552	479	448	410	440	371	423	421	467	5,648

VITAL STATISTICS.

Deaths from Cancer, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	28	20	35	26	34	20	34	24	26	24	40	24	335
1872.....	30	34	31	26	44	37	26	34	34	29	32	35	392
1873.....	40	29	32	35	31	32	50	38	45	30	29	34	425
1874.....	41	33	37	39	38	32	30	32	36	40	31	27	416
1875.....	36	30	45	40	36	40	38	33	37	29	34	26	424
1876.....	32	36	37	27	42	45	36	36	40	34	37	57	459
1877.....	40	39	42	38	41	33	46	52	40	38	39	47	495
1878.....	44	47	51	45	48	55	56	41	58	46	40	39	570
1879.....	44	42	48	50	44	47	57	57	50	41	43	49	572
1880.....	45	54	67	55	62	55	61	49	52	50	56	53	659
1881.....	66	58	44	60	73	60	46	59	56	70	55	59	706
1882.....	75	48	63	66	51	68	69	57	53	67	52	63	732
1883.....	50	52	56	50	71	63	57	62	57	51	58	51	678
1884.....	58	57	74	65	69	61	61	61	46	53	61	65	731
1885.....	55	68	67	46	62	69	66	60	56	68	69	68	754
1886.....	53	73	78	62	65	70	62	67	49	69	64	67	779
1887.....	82	49	59	70	63	80	68	73	66	92	56	74	832
1888.....	75	67	80	89	78	78	46	62	73	84	64	74	870
1889.....	58	51	76	68	72	72	77	85	68	73	70	78	848
1890.....	92	61	80	78	102	80	78	72	81	65	79	86	954
1891.....	60	63	102	79	81	60	65	68	81	86	59	98	902
1892.....	76	83	90	82	82	81	87	85	84	86	83	77	996
1893.....	63	80	92	89	86	66	98	96	70	84	77	92	993
1894.....	78	75	86	92	85	89	104	93	69	79	79	93	1,022
1895.....	99	78	86	86	74	68	106	105	81	95	67	85	1,030
1896.....	97	96	91	103	93	94	93	101	79	93	105	96	1,141
1897.....	107	118	105	88	109	83	98	114	88	113	95	99	1,217
1898.....	90	83	105	107	110	101	120	113	98	115	117	101	1,260
1899.....	96	88	112	114	106	120	112	111	101	119	118	124	1,321
1900.....	135	133	120	133	122	121	119	125	121	119	122	103	1,473
1901.....	149	114	142	124	140	147	147	111	117	125	122	137	1,575
1902.....	116	100	123	130	168	127	124	138	115	117	136	142	1,536
1903.....	165	125	153	147	128	140	147	141	124	132	123	158	1,683
1904.....	143	134	157	137	153	113	131	146	174	145	159	148	1,740
1905.....	145	132	165	169	143	150	157	143	141	164	166	159	1,834
1906.....	156	154	142	160	144	136	161	167	159	157	147	173	1,856
1907.....	158	153	204	167	154	180	172	161	156	180	159	188	2,032
1908.....	162	162	175	163	170	153	175	178	157	182	167	176	2,020
1909.....	174	171	165	175	179	191	169	162	153	212	163	209	2,123
1910.....	177	192	209	177	188	176	177	195	187	205	177	178	2,238
1911.....	200	156	195	183	211	176	193	229	191	238	196	208	2,376
1912.....	205	204	208	201	219	189	211	213	178	206	212	251	2,497

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Bronchitis, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	93	88	97	89	101	59	53	52	69	81	81	101	964
1872.....	95	101	135	134	87	64	59	38	57	73	80	117	1,040
1873.....	122	123	107	110	98	54	54	58	44	56	114	128	1,068
1874.....	111	111	127	108	94	52	47	51	67	76	101	120	1,065
1875.....	149	110	137	110	93	55	57	44	69	90	90	107	1,111
1876.....	120	139	178	107	81	65	58	82	63	89	99	133	1,214
1877.....	115	127	129	94	72	59	50	42	56	88	90	111	1,033
1878.....	119	130	142	123	113	67	57	49	69	95	122	98	1,184
1879.....	159	130	145	114	95	63	64	51	71	111	126	134	1,263
1880.....	106	122	140	138	131	102	43	82	78	112	126	195	1,375
1881.....	166	169	153	159	120	93	81	69	86	106	135	174	1,511
1882.....	218	169	188	152	167	103	78	67	76	92	133	140	1,583
1883.....	155	132	183	174	145	79	59	68	77	87	110	166	1,435
1884.....	158	131	148	137	124	84	79	78	75	118	160	193	1,485
1885.....	157	180	210	163	137	105	93	76	89	93	124	178	1,605
1886.....	203	178	190	127	119	88	85	76	101	142	164	228	1,701
1887.....	218	168	206	180	159	109	81	98	132	151	142	194	1,838
1888.....	191	200	227	181	168	120	111	97	111	144	158	184	1,892
1889.....	182	217	234	159	133	107	96	104	105	120	129	228	1,814
1890.....	391	190	229	201	163	116	94	98	96	121	136	152	1,987
1891.....	174	127	195	333	179	120	82	82	107	124	117	196	1,836
1892.....	221	179	206	195	185	125	106	57	107	104	132	137	1,754
1893.....	181	135	241	229	134	80	68	76	82	93	101	157	1,577
1894.....	175	156	128	136	97	103	62	63	71	95	107	136	1,329
1895.....	229	195	180	167	126	86	66	70	74	118	144	181	1,636
1896.....	142	131	179	177	125	67	58	80	72	82	76	97	1,292
1897.....	100	124	125	109	103	77	51	54	72	86	83	105	1,089
1898.....	112	135	147	102	90	55	45	50	72	91	90	138	1,127
1899.....	134	123	110	105	88	68	53	46	66	101	124	114	1,132
1900.....	137	169	177	145	85	43	39	32	36	69	84	77	1,093
1901.....	112	97	115	104	69	49	27	43	44	68	74	132	934
1902.....	153	119	104	103	92	40	43	51	61	71	93	90	1,020
1903.....	88	97	93	96	91	49	37	37	53	53	76	89	859
1904.....	135	129	137	113	85	59	51	33	60	67	79	96	1,044
1905.....	104	93	110	105	74	62	45	43	35	52	69	72	864
1906.....	112	90	116	73	58	39	38	23	25	48	45	53	720
1907.....	47	61	49	35	42	32	35	24	25	16	28	41	435
1908.....	42	28	34	40	20	27	21	15	20	19	28	30	324
1909.....	58	49	56	73	56	22	23	28	34	41	37	77	554
1910.....	63	50	52	43	27	26	15	25	30	23	50	53	457
1911.....	41	39	43	40	40	23	18	19	16	19	42	50	390
1912.....	45	37	42	31	32	16	17	14	20	24	28	28	334

VITAL STATISTICS.

Deaths from Pneumonia, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	227	195	213	188	170	94	79	63	108	157	148	192	1,834
1872.....	198	267	316	264	228	124	89	81	87	134	149	213	2,150
1873.....	224	228	280	248	269	155	116	109	105	146	229	219	2,328
1874.....	239	245	279	323	242	160	110	97	107	128	214	254	2,398
1875.....	410	297	364	278	265	149	138	113	135	174	225	254	2,802
1876.....	255	321	370	282	241	149	114	105	118	156	195	236	2,542
1877.....	263	212	278	243	194	115	105	108	109	154	176	191	2,148
1878.....	280	247	306	249	222	143	84	103	106	141	181	226	2,288
1879.....	341	251	330	274	214	126	103	92	114	171	268	270	2,554
1880.....	261	248	266	375	340	163	127	108	134	205	246	349	2,822
1881.....	366	371	391	393	282	176	151	134	157	200	254	386	3,261
1882.....	376	370	453	393	464	234	169	103	135	191	225	359	3,472
1883.....	357	361	526	472	345	213	133	122	127	182	240	331	3,409
1884.....	348	339	349	304	268	186	167	150	156	209	298	385	3,159
1885.....	376	486	587	512	337	229	150	139	149	160	217	308	3,650
1886.....	387	354	506	374	256	184	176	160	125	258	376	500	3,656
1887.....	480	370	394	466	390	164	137	119	205	260	347	375	3,707
1888.....	460	505	618	426	409	222	175	168	203	335	318	419	4,288
1889.....	405	394	534	508	352	229	147	161	205	270	308	562	4,075
1890.....	1,111	434	487	465	412	276	205	223	196	285	362	533	4,989
1891.....	502	478	646	1,112	563	352	237	208	242	296	508	674	5,818
1892.....	648	609	685	691	711	385	301	255	254	340	464	498	5,841
1893.....	687	613	1,089	1,082	653	359	252	223	234	287	379	629	6,487
1894.....	680	551	525	512	425	314	230	206	224	286	333	439	4,725
1895.....	835	609	618	681	541	311	231	268	267	366	449	575	5,751
1896.....	633	619	739	803	522	284	257	218	298	340	324	346	5,383
1897.....	422	494	627	489	401	303	228	236	259	358	353	451	4,621
1898.....	497	543	560	536	496	317	264	244	309	376	447	712	5,301
1899.....	623	584	580	556	478	324	293	231	298	365	438	648	5,418
1900.....	713	893	1,117	938	634	374	297	240	247	380	405	509	6,747
1901.....	790	493	724	612	500	336	245	231	267	391	498	705	5,792
1901.....	859	776	659	574	571	322	285	257	306	366	407	459	5,841
1903.....	692	745	742	645	616	370	321	263	268	351	548	747	6,308
1904.....	1,011	1,043	1,154	1,119	754	381	291	275	281	382	525	813	8,029
1905.....	804	684	737	701	553	375	299	261	237	340	523	625	6,139
1906.....	749	679	883	822	668	412	276	279	314	410	505	685	6,682
1907.....	932	804	876	735	623	497	352	365	315	384	551	904	7,338
1908.....	712	714	708	706	617	317	245	221	264	332	440	592	5,868
1909.....	666	607	842	868	605	425	281	237	261	394	526	662	6,374
1910.....	741	626	792	720	515	380	299	238	304	367	436	747	6,165
1911.....	753	654	842	787	605	341	272	248	228	339	400	519	5,988
1912.....	651	672	717	606	639	396	298	253	236	398	407	614	5,887

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

*Deaths from Diseases of Nervous System, Former New York City, by Months.**

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	227	201	246	240	246	215	248	252	188	208	179	206	2,656
1872.....	207	274	350	337	342	273	348	242	198	184	184	220	3,159
1873.....	279	227	314	253	234	194	257	224	227	208	166	194	2,777
1874.....	218	209	215	210	209	207	226	213	172	193	179	181	2,432
1875.....	209	188	227	218	199	196	252	219	204	157	151	197	2,417
1876.....	209	218	222	227	181	169	319	209	177	172	170	184	2,457
1877.....	189	178	200	193	218	204	260	198	197	190	170	160	2,357
1878.....	207	167	227	206	154	196	288	210	180	176	163	184	2,358
1879.....	245	192	230	175	203	213	250	194	186	190	162	205	2,445
1880.....	218	199	229	221	271	259	236	217	198	207	211	206	2,672
1881.....	277	269	312	334	276	225	270	248	224	234	215	256	3,140
1882.....	265	241	252	273	244	250	305	218	211	194	191	221	2,865
1883.....	229	226	267	249	234	213	267	205	221	182	206	228	2,727
1884.....	238	222	267	275	232	274	256	258	222	217	203	247	2,911
1885.....	261	281	304	269	256	260	311	233	222	213	242	243	3,095
1886.....	258	253	290	293	266	251	296	247	204	240	217	266	3,081
1887.....	261	277	300	286	318	292	348	263	253	269	228	278	3,373
1888.....	212	267	286	327	298	337	296	338	319	264	256	329	3,529
1889.....	300	303	369	302	289	300	322	255	243	243	257	308	3,491
1890.....	303	262	305	313	271	272	296	251	218	246	204	269	3,210
1891.....	282	258	313	336	221	333	233	315	260	249	251	290	3,341
1892.....	293	298	372	333	336	317	397	265	245	254	246	299	3,655
1893.....	306	300	405	404	348	306	353	303	233	275	236	281	3,750
1894.....	323	303	330	315	300	319	326	226	253	238	252	281	3,466
1895.....	316	282	322	322	300	310	297	292	274	235	241	238	3,429
1896.....	268	272	324	301	297	277	316	355	238	249	218	243	3,358
1897.....	273	291	340	324	259	290	283	240	270	253	228	294	3,345
1898.....	314	285	283	300	271	250	250	249	239	228	222	264	3,155
1899.....	311	272	320	274	258	270	244	242	231	242	233	293	3,190
1900.....	274	297	348	326	292	213	242	181	203	229	227	259	3,091
1901.....	303	245	362	329	306	289	326	251	232	240	232	289	3,404
1902.....	311	327	325	349	258	242	281	242	228	282	260	294	3,399
1903.....	299	275	284	327	313	257	226	216	210	272	271	291	3,241
1904.....	352	307	415	549	572	416	326	263	266	286	299	391	4,442
1905.....	435	435	619	621	500	347	312	229	268	261	246	318	4,591
1906.....	330	345	330	404	375	264	233	245	259	287	261	279	3,612
1907.....	331	299	322	337	343	285	236	244	223	277	236	280	3,413
1908.....	244	254	306	279	215	163	159	155	143	134	135	153	2,340
1909.....	149	156	170	213	191	158	132	156	139	171	171	189	1,995
1910.....	197	162	213	174	200	158	180	121	158	172	179	196	2,110
1911.....	228	195	196	206	180	153	175	140	141	141	158	154	2,067
1912.....	207	201	175	165	147	159	162	137	131	123	137	153	1,897

*Includes deaths from cerebrospinal meningitis from 1901 on.

VITAL STATISTICS.

Deaths from Bright's Disease and Nephritis, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	77	86	101	100	102	89	82	82	82	79	77	73	1,030
1872.....	72	75	99	113	100	76	81	78	89	73	75	98	1,029
1873.....	83	72	99	86	91	74	88	87	71	68	90	76	985
1874.....	85	60	111	70	88	58	65	86	77	83	100	92	975
1875.....	109	97	90	94	86	81	92	85	82	85	93	113	1,107
1876.....	86	111	130	106	92	83	106	86	72	83	84	93	1,132
1877.....	93	65	112	106	104	81	90	85	97	105	107	94	1,139
1878.....	86	88	108	106	104	96	94	99	76	90	97	117	1,161
1879.....	144	113	119	111	120	101	125	85	92	102	120	116	1,348
1880.....	107	106	87	127	123	127	114	117	106	128	113	163	1,418
1881.....	144	134	135	165	143	136	157	121	119	161	142	144	1,701
1882.....	161	173	161	165	168	146	139	146	146	163	142	146	1,856
1883.....	157	159	156	143	175	146	157	150	154	155	153	149	1,854
1884.....	148	168	164	170	164	160	177	141	160	165	160	151	1,928
1885.....	196	173	183	192	196	170	176	150	164	164	165	166	2,095
1886.....	179	156	212	191	192	142	173	208	186	185	178	212	2,214
1887.....	196	177	207	231	202	216	221	184	176	188	175	202	2,375
1888.....	189	208	238	197	233	179	188	186	138	185	186	215	2,342
1889.....	225	250	216	229	179	171	215	198	151	189	182	232	2,437
1890.....	241	163	219	200	218	207	217	172	162	205	193	213	2,410
1891.....	220	204	235	270	216	198	202	194	164	196	176	226	2,501
1892.....	211	205	209	231	218	157	211	186	180	189	191	207	2,395
1893.....	208	180	286	248	250	194	212	191	186	203	186	227	2,571
1894.....	244	202	221	214	207	192	191	211	156	200	234	207	2,479
1895.....	256	231	258	244	232	222	230	178	186	228	223	209	2,697
1896.....	269	260	265	231	223	204	225	238	169	189	200	212	2,683
1897.....	235	186	256	250	234	207	172	188	169	189	203	210	2,499
1898.....	276	266	278	282	260	237	210	220	207	211	242	272	2,961
1899.....	268	248	267	276	264	257	267	274	221	297	275	280	3,194
1900.....	326	312	341	293	288	249	264	214	240	274	305	288	3,394
1901.....	341	273	304	310	233	230	243	179	247	292	313	326	3,291
1902.....	303	285	295	293	263	254	219	250	224	283	226	303	3,198
1903.....	344	282	297	276	293	239	232	214	205	244	280	294	3,200
1904.....	347	337	322	325	304	246	291	270	261	267	328	312	3,610
1905.....	334	305	369	310	282	284	280	258	249	308	320	295	3,594
1906.....	311	333	344	313	320	258	258	292	281	272	266	370	3,618
1907.....	338	323	329	273	288	241	259	226	196	247	239	290	3,249
1908.....	287	308	307	265	253	191	217	179	221	232	210	223	2,893
1909.....	252	254	320	269	275	256	211	222	184	232	256	284	3,015
1910.....	297	272	293	273	264	238	223	224	191	207	261	295	3,038
1911.....	295	266	299	280	249	184	217	172	191	195	246	280	2,874
1912.....	296	289	298	320	248	252	240	218	213	273	278	319	3,244

This table includes all acute and chronic forms of nephritis.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Heart Diseases, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	79	58	69	80	84	54	57	60	54	58	73	87	813
1872.....	95	77	86	75	84	77	62	64	57	69	77	71	894
1873.....	76	56	80	68	77	75	55	66	73	67	86	81	860
1874.....	77	76	63	88	87	59	63	59	62	87	71	91	883
1875.....	102	88	70	95	85	77	72	73	67	82	70	104	985
1876.....	86	74	86	84	77	76	90	70	76	94	77	102	992
1877.....	84	61	99	71	75	68	63	61	53	78	72	94	879
1878.....	106	82	106	102	86	80	66	62	91	89	85	113	1,068
1879.....	115	137	121	102	80	93	81	94	81	81	102	77	1,164
1880.....	123	93	104	99	99	94	86	81	74	96	83	121	1,153
1881.....	134	106	109	130	134	96	88	90	102	93	101	106	1,289
1882.....	131	102	130	156	137	121	126	92	86	111	142	143	1,477
1883.....	160	157	146	147	150	125	132	122	118	129	138	169	1,693
1884.....	153	130	158	135	162	129	118	109	111	136	160	161	1,662
1885.....	155	164	172	183	168	135	137	126	121	130	144	165	1,800
1886.....	183	180	176	165	154	154	144	122	119	121	169	107	1,894
1887.....	162	178	196	184	168	143	149	144	188	149	173	184	2,018
1888.....	174	153	176	168	172	143	139	126	148	171	163	147	1,880
1889.....	165	167	189	158	186	135	148	151	132	151	175	213	1,970
1890.....	184	155	196	176	194	162	146	143	122	151	167	182	1,978
1891.....	223	142	235	221	215	177	167	174	146	200	185	200	2,285
1892.....	208	222	232	244	184	182	191	150	144	186	177	210	2,330
1893.....	236	200	252	229	221	192	198	175	150	162	169	195	2,379
1894.....	212	183	195	194	191	185	172	169	160	156	189	164	2,170
1895.....	234	199	231	205	191	149	169	194	145	197	168	215	2,297
1896.....	217	191	242	215	214	165	170	165	185	246	197	189	2,396
1897.....	234	185	256	219	194	162	160	177	178	197	172	212	2,346
1898.....	193	154	168	170	203	195	143	180	201	237	244	291	2,379
1899.....	204	218	233	218	189	137	129	131	154	181	197	212	2,203
1900.....	199	184	222	240	222	168	155	172	148	187	166	213	2,276
1901.....	253	279	338	292	303	276	187	195	214	212	247	292	3,088
1902.....	334	301	316	311	307	240	201	216	186	256	233	232	3,133
1903.....	278	268	277	297	258	243	225	226	200	249	292	251	3,064
1904.....	286	293	297	324	275	184	207	236	197	264	285	340	3,188
1905.....	242	315	274	287	268	215	213	207	243	257	267	284	3,072
1906.....	290	269	299	333	301	258	290	236	273	283	326	348	3,506
1907.....	373	350	354	349	387	341	316	260	324	356	377	424	4,211
1908.....	471	402	384	361	370	296	308	297	304	369	374	395	4,331
1909.....	447	374	445	439	387	434	280	315	310	439	371	444	4,685
1910.....	465	444	411	406	404	365	329	273	334	363	404	541	4,739
1911.....	557	464	513	538	463	361	376	337	342	389	465	492	5,297
1912.....	623	528	525	479	410	386	403	346	322	421	430	530	5,403

VITAL STATISTICS.

Deaths from Puerperal Diseases, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	29	36	37	36	45	28	23	30	15	30	30	42	381
1872.....	34	52	52	52	44	33	36	45	22	24	33	49	476
1873.....	54	50	55	52	45	31	23	26	18	23	27	23	427
1874.....	34	47	35	49	44	37	30	32	22	13	17	33	393
1875.....	39	38	58	44	30	24	26	21	17	18	24	31	370
1876.....	35	28	34	34	28	27	32	21	24	25	27	27	342
1877.....	29	32	42	23	20	19	21	19	22	21	21	29	298
1878.....	28	25	36	33	20	32	26	20	14	14	28	24	300
1879.....	30	47	44	53	34	22	27	30	21	10	24	17	359
1880.....	40	33	37	49	42	42	24	24	27	24	20	45	407
1881.....	61	67	48	40	36	18	32	33	25	25	14	27	426
1882.....	35	43	51	50	59	29	21	29	23	18	28	21	407
1883.....	45	36	51	39	40	33	27	26	19	23	39	38	416
1884.....	46	54	56	47	42	35	29	25	28	20	33	23	438
1885.....	41	33	51	38	36	35	44	17	25	23	25	26	394
1886.....	41	44	46	33	33	28	26	30	23	18	25	24	371
1887.....	29	37	31	44	28	30	32	24	21	19	25	35	355
1888.....	30	49	60	35	37	37	29	35	25	32	30	43	442
1889.....	27	43	56	52	37	25	24	32	27	25	21	24	393
1890.....	29	31	40	38	35	41	29	24	14	27	43	32	383
1891.....	39	49	41	36	44	42	24	29	27	25	24	40	420
1892.....	52	51	51	51	38	33	30	19	26	25	17	24	417
1893.....	48	32	44	43	35	28	31	33	22	19	18	31	384
1894.....	44	35	39	31	40	34	21	22	25	27	16	24	358
1895.....	37	41	42	35	33	24	40	22	28	30	37	40	409
1896.....	38	44	47	44	37	31	30	30	21	28	33	33	416
1897.....	39	34	43	31	32	34	39	28	26	41	27	29	403
1898.....	36	25	28	36	36	45	27	29	25	33	26	30	376
1899.....	40	28	44	37	34	36	29	31	23	25	25	33	385
1900.....	46	41	61	36	36	40	30	38	22	24	29	25	428
1901.....	45	41	47	40	23	28	28	21	37	28	28	35	401
1902.....	38	38	45	47	38	32	33	30	29	20	27	32	409
1903.....	30	36	36	39	40	26	35	23	21	31	31	27	375
1904.....	50	58	42	62	41	31	36	30	22	23	21	31	447
1905.....	39	44	52	48	43	31	39	35	36	37	36	45	485
1906.....	42	39	55	43	48	33	36	31	21	32	26	52	458
1907.....	37	42	56	37	41	40	39	35	18	27	39	38	449
1908.....	33	34	50	41	32	39	32	27	21	33	32	29	403
1909.....	46	31	48	36	43	27	49	29	26	32	32	31	430
1910.....	46	43	50	48	41	43	39	24	30	28	20	34	446
1911.....	39	37	42	37	54	36	25	38	30	28	25	33	424
1912.....	40	41	47	46	30	23	18	31	29	25	25	24	379

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Effects of Heat, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	..	..	..	I	4	5	7	4	..	..	..	..	21
1872.....	..	..	..	..	2	13	236	63	6	..	..	..	320
1873.....	..	..	..	..	2	6	24	2	..	..	..	..	34
1874.....	..	..	..	..	..	4	12	3	..	..	..	..	19
1875.....	..	..	..	..	..	9	7	..	3	..	..	..	19
1876.....	..	..	..	..	I	6	187	11	I	..	..	..	206
1877.....	..	..	..	..	3	..	8	10	..	..	..	..	21
1878.....	..	..	..	..	..	5	43	2	2	..	..	..	52
1879.....	..	..	..	..	..	7	18	16	..	..	..	..	41
1880.....	..	..	..	..	23	35	39	10	9	..	..	..	116
1881.....	..	..	..	..	9	I	18	49	55	2	..	..	134
1882.....	..	..	..	..	..	12	79	11	I	..	..	..	103
1883.....	..	..	..	..	I	12	65	5	..	..	..	..	83
1884.....	..	..	..	..	I	9	5	17	75	..	..	..	107
1885.....	..	..	..	..	..	6	127	13	..	..	..	..	146
1886.....	..	..	..	..	..	4	23	15	..	..	..	..	42
1887.....	..	..	..	..	I	4	152	59	..	..	..	..	216
1888.....	..	..	..	..	..	65	11	19	I	..	..	..	96
1889.....	..	..	..	..	..	7	14	10	I	..	..	..	32
1890.....	..	..	..	..	..	7	29	25	I	..	..	..	62
1891.....	..	..	..	..	..	35	5	51	4	..	..	..	95
1892.....	..	..	..	..	..	29	252	39	..	..	..	..	320
1893.....	..	..	..	..	..	12	20	10	I	..	..	..	43
1894.....	..	..	..	..	..	27	78	7	3	..	..	..	115
1895.....	..	..	..	..	5	45	4	18	13	..	..	..	85
1896.....	..	..	..	I	4	5	30	725	..	..	..	..	765
1897.....	..	..	..	..	..	3	28	2	6	..	..	..	39
1898.....	..	..	..	..	..	14	75	46	253	..	..	..	388
1899.....	..	..	..	..	..	80	10	5	..	..	..	..	95
1900.....	..	..	..	..	..	10	106	79	10	..	..	..	205
1901.....	..	..	..	..	I	47	826	24	..	..	..	..	898
1902.....	..	..	..	..	3	4	14	4	..	..	..	..	25
1903.....	..	..	..	..	10	..	62	3	I	..	..	..	76
1904.....	..	..	..	..	I	7	13	I	..	..	..	..	22
1905.....	..	..	..	..	..	4	126	4	..	..	..	..	134
1906.....	..	..	..	..	I	3	27	41	3	..	..	..	75
1907.....	..	..	..	..	..	11	19	4	I	..	..	..	35
1908.....	..	..	..	..	I	2	62	14	..	..	..	..	79
1909.....	..	..	..	..	..	51	20	8	..	..	..	..	79
1910.....	..	..	..	..	..	14	52	6	5	..	..	..	77
1911.....	..	..	..	..	..	2	372	6	I	..	..	..	381
1912.....	..	..	..	..	..	..	38	3	..	..	..	..	41

VITAL STATISTICS.

Deaths from Suicide, Former New York City, by Months.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1871.....	4	6	11	10	6	14	12	9	12	12	8	10	114
1872.....	14	10	14	11	18	8	21	11	14	14	6	3	144
1873.....	10	11	8	14	13	6	4	11	14	11	6	10	118
1874.....	7	8	14	1	25	19	18	16	19	10	17	16	180
1875.....	19	4	8	12	20	24	19	12	12	9	8	8	155
1876.....	12	7	13	12	16	18	16	18	8	9	12	9	150
1877.....	11	6	6	15	18	11	18	11	9	12	16	15	148
1878.....	14	6	13	12	5	12	14	17	10	11	13	15	142
1879.....	8	12	9	12	16	12	8	8	7	9	10	6	117
1880.....	9	8	9	18	20	18	18	9	10	8	17	8	152
1881.....	8	5	13	13	27	6	16	17	15	16	13	17	166
1882.....	14	18	20	26	18	19	17	14	15	14	14	10	199
1883.....	14	8	10	11	15	7	20	20	13	18	11	14	161
1884.....	9	23	22	23	20	24	22	14	23	13	17	19	229
1885.....	11	11	16	24	27	22	18	13	19	14	14	18	207
1886.....	22	18	20	21	21	19	23	14	16	12	17	20	223
1887.....	10	16	22	18	24	15	29	23	19	20	21	18	235
1888.....	18	16	21	25	28	22	19	14	15	24	24	21	247
1889.....	22	18	17	33	22	21	22	13	16	19	20	21	244
1890.....	28	22	21	21	15	21	18	17	23	14	26	13	239
1891.....	15	26	20	34	33	37	21	18	22	27	18	29	300
1892.....	14	17	14	21	27	23	24	30	20	15	17	19	241
1893.....	24	20	20	17	27	28	26	22	42	33	27	28	314
1894.....	25	22	34	33	33	27	25	30	26	40	18	18	331
1895.....	29	29	32	29	35	43	30	34	20	34	32	29	376
1896.....	42	32	22	26	28	29	41	34	33	25	38	34	384
1897.....	38	24	25	39	47	39	42	42	36	38	29	37	436
1898.....	39	33	33	47	42	45	35	39	27	39	40	44	463
1899.....	43	33	43	41	37	32	26	44	40	44	22	28	433
1900.....	44	36	44	42	47	39	45	41	43	37	35	47	500
1901.....	47	34	42	35	35	46	41	41	42	31	36	40	470
1902.....	32	23	39	43	56	39	39	36	55	41	49	25	477
1903.....	34	36	36	45	51	55	46	40	54	40	49	35	521
1904.....	40	43	63	59	57	71	43	47	39	35	35	35	567
1905.....	36	28	43	44	44	37	25	24	32	30	41	38	422
1906.....	49	39	44	43	41	25	34	37	28	36	31	35	442
1907.....	28	35	38	37	40	32	41	35	39	32	40	45	442
1908.....	46	59	53	68	53	60	46	48	54	59	52	46	644
1909.....	53	43	59	53	45	58	47	31	41	48	42	49	572
1910.....	46	37	36	40	53	63	54	34	48	38	33	41	523
1911.....	37	37	49	51	45	38	35	35	27	47	45	50	496
1912.....	44	50	45	44	52	47	29	39	36	39	42	64	531

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths by Chloroform, Ether, Illuminating Gas, Railroad, Elevated Railroads, Horse, Cable and Electric Cars, Street Vehicles and Electric Current, in Former New York City, from 1870 to 1912, inclusive.

Causes of Death— Accidents.	Chloro- form.	Ether.	*Illumi- nating Gas.	Steam Rail- roads.	Elevated Rail- roads.	Horse, Cable and Electric Cars.	Subway Cars.	Street Vehicles.	Electric Current.
Year.									
1870.....	1	.....	1	26	.....	45	.....	18	.....
1871.....	1	.....	7	24	.....	52	.....	37	.....
1872.....	1	2	1	29	.....	54	.....	33	.....
1873.....	1	.....	1	31	.....	46	.....	39	.....
1874.....	1	.....	1	22	.....	33	.....	26	.....
1875.....	.....	1	.....	28	.....	31	.....	30	.....
1876.....	1	1	.....	22	.....	26	.....	24	.....
1877.....	.....	.....	.....	28	.....	20	.....	22	.....
1878.....	2	2	2	25	1	34	.....	42	.....
1879.....	2	2	.....	22	23	24	.....	35	.....
1880.....	1	1	9	22	9	26	.....	45	.....
1881.....	1	1	12	34	10	28	.....	29	1
1882.....	.....	.....	16	38	15	29	.....	41	1
1883.....	.....	.....	11	26	10	24	.....	35	.....
1884.....	2	2	18	21	9	30	.....	33	.....
1885.....	1	1	13	26	14	23	.....	27	.....
1886.....	4	4	27	27	10	25	.....	31	.....
1887.....	1	1	22	22	15	21	.....	39	3
1888.....	.....	.....	32	39	6	14	.....	55	5
1889.....	1	1	30	59	4	24	.....	57	8
1890.....	4	4	36	58	3	12	.....	44	2
1891.....	1	2	35	53	12	47	.....	54	2
1892.....	7	1	52	56	8	49	.....	73	.....
1893.....	5	4	38	44	7	44	.....	54	2
1894.....	2	1	31	48	10	43	.....	85	1
1895.....	1	2	47	58	7	47	.....	100	1
1896.....	3	1	42	47	9	56	.....	109	4
1897.....	1	3	48	49	8	55	.....	86	3
1898.....	3	1	60	39	11	64	.....	104	3
1899.....	5	.....	65	41	9	91	.....	118	4
1900.....	5	6	103	44	9	99	.....	117	6
1901.....	4	2	114	31	7	116	.....	114	9
1902.....	4	1	154	60	23	111	.....	158	7
1903.....	6	2	176	30	19	97	.....	189	8
1904.....	10	7	215	44	14	98	.....	204	8
1905.....	2	7	218	82	33	104	21	204	7
1906.....	8	4	139	110	14	140	19	246	11
1907.....	.....	.....	236	99	12	160	10	264	12
1908.....	.....	.....	124	43	14	140	15	194	11
1909.....	.....	.....	110	41	3	102	16	207	4
1910.....	.....	.....	142	44	6	102	21	230	12
1911.....	.....	.....	136	38	14	75	13	303	10
1912.....	5	.....	163	32	6	68	15	276	9

* Previous to 1880 most of the deaths caused by illuminating gas were supposed to be intentional and were classed with suicides. Since that year the deaths believed to be accidental have been separated from the others.

VITAL STATISTICS.

Deaths from Small-pox, Cholera, Yellow Fever and Hydrophobia, in New York City, from 1804 to 1912, inclusive.

Year.	‡Small-pox.	Cholera.	*Yellow Fever.	†Hydrophobia.
1804.	169			
1805.	62		270	
1806.	48			
1807.	29			
1808.	62			
1809.	66		13	
1810.	4			
1811.	117			
1812.	21			
1813.	2			
1814.	2			2
1815.	94			
1816.	179			
1817.	14		1	
1818.	19			
1819.			23	
1820.				1
1821.			3	
1822.			166	
1823.	18		1	
1824.	394			
1825.	40			
1826.	58			
1827.	149			
1828.	93			
1829.	16			
1830.	176			1
1831.	224			1
1832.	89	3,513		
1833.	25			1
1834.	233	971		
1835.	351			2
1836.	173			3
1837.	170			3
1838.	91			2
1839.	69	2	2	2
1840.	234	1		
1841.	220			1
1842.	181			
1843.	119			
1844.	20	15		1
1845.	425	6		
1846.	141			
1847.	53			
1848.	585	2		7
1849.	372	5,071		2
1850.	241	57		4
1851.	586			
1852.	516	374	1	1
1853.	681	33	5	1
1854.	624	2,509	6	
1855.	107	19	2	4
1856.	396	8	13	3
1857.	434	11		2
1858.	511	5	5	
1859.	62	9	4	2
1860.	289	18	2	
1861.	616	12		5

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Deaths from Small-pox, Cholera, Yellow Fever and Hydrophobia, in New York City, from 1804 to 1912, inclusive.—(Continued.)

Year.	‡Small-pox.	Cholera.	*Yellow Fever.	†Hydro-phobia.
1862.....	269	9	.....	1
1863.....	78	9	.....	3
1864.....	394	12	2	1
1865.....	674	10	.....	3
1866.....	44	1,137	.....	2
1867.....	19	82	3	4
1868.....	26	9	1	1
1869.....	203	6	1	5
1870.....	293	1	3	3
1871.....	805	6	2	7
1872.....	929	4	.....	6
1873.....	117	1	3	.....
1874.....	484	2	.....	5
1875.....	1,280	.....	.....	.....
1876.....	315	.....	1	5
1877.....	14	2	1	4
1878.....	2	.....	.....	2
1879.....	25	.....	2	.....
1880.....	31	.....	1	.....
1881.....	451	.....	.....	3
1882.....	259	.....	.....	2
1883.....	12	.....	.....	1
1884.....	.....	.....	3	1
1885.....	26	.....	1	.....
1886.....	31	.....	1	.....
1887.....	99	.....	.....	1
1888.....	81	.....	3	.....
1889.....	1	.....	.....	1
1890.....	2	.....	.....	1
1891.....	2	.....	.....	.....
1892.....	81	9	1	.....
1893.....	102	.....	.....	2
1894.....	154	.....	.....	3
1895.....	10	.....	.....	3
1896.....	1	.....	.....	.....
1897.....	24	.....	.....	1
1898.....	1	.....	1	3
1899.....	18	.....	.....	1
1900.....	12	.....	.....	4
1901.....	399	.....	.....	5
1902.....	218	.....	.....	4
1903.....	3	.....	.....	3
1904.....	1	.....	.....	.....
1905.....	1	.....	.....	2
1906.....	.....	.....	.....	8
1907.....	1	.....	.....	14
1908.....	.....	.....	.....	8
1909.....	2	.....	.....	3
1910.....	4	.....	.....	6
1911.....	.....	.....	.....	6
1912.....	.....	.....	.....	2

* The number of deaths from Yellow Fever in the year 1798, as reported to Mayor Varick, was 714.

† In 1874 there was a death reported as due to Hyssophobia in addition to the 5 deaths from Hydrophobia.

‡ Vaccinating Corps organized September 27, 1874, under act of Legislature passed June 15, 1874.

Note.—These diseases have been selected from the confessedly imperfect records of the years preceding the organization of the Health Department as being diseases of such bold characteristics and exciting so great public interest as to make it probable that the record of them is complete.

VITAL STATISTICS.

Marriages Reported by Months, Former New York City, since 1866.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1866.....	256	228	229	274	461	523	601	554	604	767	683	612	5,792
1867.....	557	493	517	636	766	727	580	530	645	674	578	441	7,144
1868.....	509	547	469	615	744	635	524	584	584	623	658	374	6,926
1869.....	687	621	565	883	832	709	656	608	998	620	822	694	8,695
1870.....	717	580	734	500	702	804	590	538	628	662	1,049	481	7,985
1871.....	636	640	523	654	830	749	583	651	901	894	808	777	8,646
1872.....	723	713	515	864	833	767	699	639	779	885	863	728	9,008
1873.....	778	687	645	776	852	853	649	606	781	825	733	686	8,871
1874.....	639	622	611	765	806	781	655	538	723	830	737	690	8,397
1875.....	583	579	489	724	736	677	649	518	620	710	732	548	7,565
1876.....	610	654	541	566	623	652	471	521	580	735	594	552	7,099
1877.....	555	526	526	585	693	619	510	504	596	706	692	617	7,129
1878.....	600	507	637	635	665	684	555	472	670	750	748	706	7,629
1879.....	673	589	530	664	754	752	615	515	717	976	888	773	8,446
1880.....	766	729	645	746	732	800	618	589	768	882	857	870	9,002
1881.....	700	670	858	750	918	950	735	709	827	1,027	1,073	860	10,077
1882.....	925	946	820	784	1,000	980	732	838	927	1,064	1,000	1,069	11,085
1883.....	964	783	863	1,001	1,124	1,068	850	809	910	1,162	986	1,036	11,556
1884.....	1,020	885	766	950	1,114	1,018	966	731	976	1,253	1,136	990	11,805
1885.....	1,000	915	901	957	992	1,052	816	748	978	1,170	1,106	1,081	11,716
1886.....	904	865	1,061	909	973	1,058	960	768	1,167	1,164	1,321	1,066	12,216
1887.....	1,043	978	1,088	1,090	1,133	1,242	1,007	1,000	1,170	1,335	1,434	1,220	13,740
1888.....	1,246	1,020	1,019	1,134	1,262	1,391	1,047	1,150	1,164	1,492	1,278	1,330	14,533
1889.....	1,202	1,090	1,133	1,056	1,300	1,332	1,042	1,019	1,240	1,326	1,436	1,224	14,400
1890.....	1,304	1,154	1,128	1,298	1,157	1,402	1,028	1,009	1,253	1,493	1,313	1,453	14,992
1891.....	1,258	1,267	1,131	1,470	1,221	1,393	1,321	995	1,317	1,408	1,413	1,570	15,764
1892.....	1,196	1,332	1,334	1,205	1,272	1,552	1,154	1,155	1,298	1,315	1,519	1,579	16,001
1893.....	1,251	1,271	1,436	1,228	1,365	1,645	1,031	1,327	1,250	1,516	1,284	1,540	16,144
1894.....	1,187	1,155	1,234	1,312	1,268	1,655	1,486	1,223	1,753	1,650	1,767	1,698	17,388
1895.....	1,621	1,636	1,476	1,614	1,587	2,134	1,439	1,462	1,725	2,073	2,036	1,809	20,612
1896.....	1,943	1,773	1,429	1,722	1,464	2,147	1,455	1,378	1,448	1,989	1,909	1,856	20,513
1897.....	1,696	1,636	1,541	1,640	1,600	2,121	1,494	1,316	1,647	1,688	2,119	1,867	20,365
1898.....	1,763	1,889	1,550	1,778	1,527	2,049	1,474	1,411	1,532	1,891	1,994	1,911	20,769
1899.....	1,900	1,719	1,406	1,714	1,760	2,204	1,428	1,513	1,598	2,283	1,994	2,221	21,740
1900.....	1,994	1,880	1,645	1,754	1,712	2,244	1,840	1,612	1,833	2,114	2,071	2,228	22,927
1901.....	2,191	1,876	1,794	1,889	1,783	2,424	1,635	1,743	1,811	2,349	2,311	2,156	23,962
1902.....	2,487	2,102	1,609	2,367	1,780	2,555	2,190	1,695	2,258	2,117	2,403	2,430	25,993
1903.....	2,496	2,199	1,928	2,335	1,720	2,976	2,001	1,947	2,306	2,279	2,530	2,548	27,265
1904.....	2,479	2,407	1,916	2,156	1,940	2,975	2,183	2,042	2,162	2,631	2,523	2,551	27,965
1905.....	2,686	2,197	2,493	1,930	2,323	3,255	2,380	2,188	2,745	2,540	2,523	2,968	30,228
1906.....	3,082	2,700	2,581	2,420	2,379	3,913	2,309	2,896	2,745	3,151	3,083	3,110	34,369
1907.....	3,201	3,006	2,402	3,027	2,494	3,978	2,597	2,794	2,791	3,185	3,234	3,388	36,097
1908.....	2,718	1,965	1,949	1,792	1,945	2,707	2,044	1,434	2,161	2,079	2,313	2,476	25,583
1909.....	2,414	2,350	2,010	2,110	1,857	3,173	2,340	1,862	2,397	2,581	2,727	2,658	28,459
1910.....	2,528	2,384	2,033	2,873	1,977	3,255	2,756	2,152	2,902	2,431	3,204	2,696	31,191
1911.....	2,929	2,615	2,275	2,570	2,315	3,528	2,748	2,450	2,636	2,774	2,882	2,979	32,701
1912.....	2,957	2,945	2,424	2,285	2,690	3,520	2,432	2,605	2,588	3,425	3,255	3,477	34,603

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

*Births by Sex and Race since 1847, the First Year of Registration, Former New York City
(Records Incomplete).*

Year.	Total.	Male.	Female.	Unknown.	White.	Colored.	Not Stated.
1847.....	314	169	145	.....	313	I	.....
1848.....	174	96	78	.....	173	I	.....
1849.....	.....	.....	.....	.....	.....	.....	.....
1850.....	.....	.....	.....	.....	.....	.....	.....
1851.....	5	3	2	.....	5	.....	.....
1852.....	.....	.....	.....	.....	.....	.....	.....
1853.....	9,287	4,899	4,379	9	9,174	112	I
1854.....	17,076	8,816	8,246	14	16,858	218	.....
1855.....	13,371	6,961	6,399	11	13,210	161	.....
1856.....	15,603	8,182	7,400	21	15,417	186	.....
1857.....	17,680	9,063	8,602	15	17,558	122	.....
1858.....	12,132	6,380	5,739	13	12,069	63	.....
1859.....	8,128	4,219	3,881	28	8,080	48	.....
1860.....	5,998	3,154	2,833	11	5,961	37	.....
1861.....	9,869	5,072	4,748	49	9,798	71	.....
1862.....	7,633	3,927	3,693	13	7,607	26	.....
1863.....	6,373	3,287	3,071	15	6,335	38	.....
1864.....	5,689	2,968	2,708	13	5,661	28	.....
1865.....	5,332	.....	.....	.....	.....	.....	.....
1866.....	10,117	5,202	4,905	10	10,025	87	5
1867.....	12,569	6,397	6,164	8	12,495	164	.....
1868.....	12,672	6,531	6,136	5	12,564	108	.....
1869.....	13,947	7,096	6,835	16	13,755	192	.....
1870.....	14,524	7,560	6,910	54	14,353	169	2
1871.....	20,821	10,749	10,032	40	20,595	226	.....
1872.....	22,068	11,282	10,763	23	21,769	299	.....
1873.....	22,683	11,707	10,917	59	22,465	218	.....
1874.....	25,747	13,276	12,387	84	25,514	233	.....
1875.....	23,813	12,054	11,669	90	23,559	253	I
1876.....	23,744	12,114	11,550	80	23,493	341	.....
1877.....	25,569	13,074	12,495	.....	25,266	303	.....
1878.....	25,729	13,154	12,575	.....	25,381	348	.....
1879.....	25,573	13,260	12,303	I	25,236	337	.....
1880.....	27,536	14,356	13,179	I	27,174	362	.....
1881.....	26,130	13,359	12,771	.....	25,761	369	.....
1882.....	27,321	14,065	13,253	3	26,992	329	.....
1883.....	28,972	14,894	14,078	.....	28,617	355	.....
1884.....	30,527	15,495	15,029	3	30,109	418	.....
1885.....	30,030	15,524	14,503	3	29,678	352	.....
1886.....	31,319	16,191	15,127	I	30,935	384	.....
1887.....	34,023	17,515	16,507	I	33,661	362	.....
1888.....	36,136	18,538	17,598	.....	35,744	392	.....
1889.....	37,527	19,260	18,258	.....	37,097	430	.....
1890.....	39,250	20,298	18,952	.....	38,818	432	.....
1891.....	46,904	23,993	22,911	.....	46,331	573	.....
1892.....	49,447	25,291	24,156	.....	48,800	557	.....
1893.....	51,529	26,451	25,078	.....	50,930	599	.....
1894.....	55,636	28,360	27,267	.....	54,931	705	.....
1895.....	53,731	27,580	26,151	.....	53,027	704	.....
1896.....	55,623	28,244	27,379	.....	54,872	751	.....
1897.....	54,089	27,538	26,551	.....	53,285	804	.....
1898.....	53,359	27,271	26,088	.....	52,575	784	.....
1899.....	52,068	26,823	25,245	.....	51,273	795	.....
1900.....	54,616	28,157	26,459	.....	53,667	949	.....
1901.....	54,013	27,492	26,521	.....	53,047	966	.....
1902.....	57,511	29,314	28,197	.....	56,492	1,019	.....
1903.....	62,131	31,613	30,518	.....	60,976	1,155	.....
1904.....	65,220	32,926	32,303	.....	64,026	1,203	.....
1905.....	66,862	34,176	32,686	.....	65,592	1,266	4
1906.....	70,311	36,043	34,268	.....	69,011	1,286	14
1907.....	74,260	38,049	36,211	.....	72,852	1,390	78
1908.....	76,480	38,719	37,761	.....	75,021	1,452	7
1909.....	73,173	37,500	35,673	.....	71,667	1,488	18
1910.....	77,262	39,706	37,556	.....	75,580	1,665	17
1911.....	78,991	40,277	38,714	.....	77,240	1,735	16
1912.....	79,925	40,971	38,954	.....	78,100	1,806	19

VITAL STATISTICS.

FORMER CITY OF NEW YORK.

(BOROUGH OF MANHATTAN AND THE BRONX.)

Cases of Contagious and Infectious Diseases Reported from 1874 to 1912, inclusive.

Year.	Croup.	Diph- theria.	Measles.	Scarlet Fever.	Small- pox.	Typhoid Fever.	Typhus Fever.	Tuber- culosis.
1874.....		3,684	1,407	3,051	1,462	488	48	.....
1875.....		4,521	703	1,730	3,397	634	56	.....
1876.....		3,471	1,638	2,406	883	561	15	.....
1877.....		2,328	1,719	3,475	48	607	15	.....
1878.....		3,484	2,172	3,916	5	594	10	.....
1879.....		1,783	2,333	5,446	65	432	8	.....
1880.....		3,307	3,891	3,048	64	508	2	.....
1881.....		5,196	3,076	7,164	1,338	901	603	.....
1882.....		3,507	4,637	5,961	702	686	207	.....
1883.....		2,096	3,828	3,825	26	1,393	71	.....
1884.....		2,223	4,395	3,262	5	1,102	133	.....
1885.....		2,920	4,095	2,634	98	974	84	.....
1886.....		3,737	5,028	1,696	109	896	66	.....
1887.....		5,923	6,062	3,147	343	1,004	2	.....
1888.....		6,491	7,279	7,188	311	1,108	4	.....
1889.....		6,489	6,443	8,849	2	1,414	.....	.....
1890.....		4,350	9,544	3,087	5	1,100	4	.....
1891.....	490	4,874	11,980	7,442	21	1,342	9	.....
1892.....	530	4,654	12,780	7,048	378	1,140	241	.....
1893.....	553	6,468	7,122	5,764	464	1,008	473	.....
1894.....	486	9,155	9,493	4,768	770	792	.....	.....
1895.....	428	9,925	8,203	3,808	41	965	.....	.....
1896.....	306	11,093	11,850	4,728	5	1,002	3	.....
1897.....	400	10,496	9,118	7,699	73	1,004	.....	.....
1898.....	380	7,213	11,157	6,680	12	1,535	1	.....
1899.....	290	7,920	8,985	4,586	63	1,290	.....	.....
1900.....		*8,364	12,906	4,381	143	1,759	.....	.....
1901.....		7,726	7,962	10,895	1,461	1,945	.....	.....
1902.....		10,413	13,560	7,724	917	2,629	.....	9,722
1903.....		11,616	7,838	7,443	26	2,462	.....	11,203
1904.....		12,183	20,489	8,721	43	2,136	.....	13,522
1905.....		8,545	10,761	4,728	12	2,194	.....	15,036
1906.....		8,695	21,270	4,634	48	2,014	.....	13,891
1907.....		8,763	11,440	9,389	11	2,771	.....	13,739
1908.....		9,911	22,876	14,588	8	1,788	.....	16,220
1909.....		9,268	18,480	7,070	5	2,015	.....	18,478
1910.....		10,686	19,384	10,986	14	2,173	.....	23,467
1911.....		8,007	16,330	8,463	6	2,135	.....	17,360
1912.....		7,925	22,109	7,641	5	1,440	.....	15,929

* Including Croup since 1900.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY AND BOROUGH OF BROOKLYN.

Estimated Population on July 1 in Each Year, from 1790 to 1912, inclusive.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population.
1790.....	1,598	1821.....	7,742	1852.....	115,810	1883.....	624,556
1791.....	1,662	1822.....	8,412	1853.....	126,195	1884.....	644,574
1792.....	1,729	1823.....	9,140	1854a.....	189,113	1885.....	665,234
1793.....	1,798	1824.....	9,931	1855.....	206,147	1886b.....	695,648
1794.....	1,871	1825.....	10,791	1856.....	217,227	1887.....	732,129
1795.....	1,946	1826.....	11,600	1857.....	228,901	1888.....	756,727
1796.....	2,024	1827.....	12,469	1858.....	241,204	1889.....	782,205
1797.....	2,106	1828.....	13,403	1859.....	254,167	1890.....	808,258
1798.....	2,190	1829.....	14,407	1860.....	267,131	1891.....	833,133
1799.....	2,279	1830.....	15,512	1861.....	272,836	1892.....	858,772
1800.....	2,366	1831.....	17,001	1862.....	278,663	1893.....	885,201
1801.....	2,516	1832.....	18,633	1863.....	284,614	1894c.....	952,344
1802.....	2,676	1833.....	20,421	1864.....	290,692	1895.....	984,390
1803.....	2,846	1834.....	22,381	1865.....	297,814	1896d.....	1,023,769
1804.....	3,027	1835.....	24,529	1866.....	315,600	1897.....	1,058,478
1805.....	3,219	1836.....	26,554	1867.....	334,448	1898.....	1,094,365
1806.....	3,423	1837.....	28,747	1868.....	354,421	1899.....	1,131,467
1807.....	3,641	1838.....	31,121	1869.....	375,588	1900.....	1,169,553
1808.....	3,872	1839.....	33,691	1870.....	397,404	1901.....	1,205,796
1809.....	4,118	1840.....	36,530	1871.....	413,399	1902.....	1,243,162
1810.....	4,379	1841.....	40,283	1872.....	430,038	1903.....	1,281,686
1811.....	4,251	1842.....	44,423	1873.....	447,347	1904.....	1,321,403
1812.....	4,093	1843.....	48,988	1874.....	465,352	1905.....	1,363,186
1813.....	3,940	1844.....	54,022	1875.....	483,788	1906.....	1,415,789
1814.....	3,838	1845.....	59,574	1876.....	499,600	1907.....	1,470,420
1815.....	4,254	1846.....	65,761	1877.....	515,927	1908.....	1,527,161
1816.....	4,714	1847.....	72,591	1878.....	532,789	1909.....	1,586,090
1817.....	5,225	1848.....	80,130	1879.....	550,202	1910.....	1,647,294
1818.....	5,791	1849.....	88,452	1880.....	568,155	1911.....	1,710,861
1819.....	6,418	1850.....	97,534	1881.....	586,365	1912.....	1,776,878
1820.....	7,114	1851.....	106,279	1882.....	605,160		

a Williamsburg and Bushwick annexed.

b New Lots annexed.

c Flatbush, Gravesend and New Utrecht annexed.

d Flatlands annexed.

Note.—The population for intercensal years has been calculated by the geometrical method, that for the various annexed towns separately, as described elsewhere.

VITAL STATISTICS.

CITY AND BOROUGH OF BROOKLYN.

Population by Census from 1790 to 1910, inclusive.

Year.	Population.	Authority.	Date.
1790.....	1,603	United States Census.....	Aug. 1
1800.....	2,378	United States Census.....	Aug. 1
1810.....	4,402	United States Census.....	Aug. 1
1814.....	3,805	New York State Census.....	June 1
1820.....	7,175	United States Census.....	Aug. 1
1825.....	10,791	New York State Census.....	July 1
1830.....	15,394	United States Census.....	June 1
1835.....	24,529	New York State Census.....	July 1
1840.....	36,233	United States Census.....	June 1
1845.....	59,574	New York State Census.....	July 1
1850.....	96,838	United States Census.....	June 1
1855.....	205,250	New York State Census.....	June 1
1860.....	266,661	United States Census.....	June 1
1865.....	296,378	New York State Census.....	June 1
1870.....	396,099	United States Census.....	June 1
1875.....	482,493	New York State Census.....	June 1
1880.....	566,663	United States Census.....	June 1
1890.....	806,343	United States Census.....	June 1
1892.....	957,958	New York State Census.....	Feb. 1
1900.....	1,166,582	United States Census.....	June 1
1905.....	1,358,891	New York State Census.....	June 1
1910.....	1,634,351	United States Census.....	April 15

NOTE.—The population given in this table is that of the City of Brooklyn, which was not made co-terminous with Kings County until 1896.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population by Census of Various Towns Annexed to Brooklyn, from 1854 to 1896, with Dates of Annexation.

Town.	Ward.	Date of Annexation.	Population.				
			U. S. Census.		N. Y. State Census.		Estimated at time of Annexation.
Williamsburg.....	13 to 16	} 1854	1850	34,519	1855	56,476	51,602
Bushwick.....	17 and 18						
New Lots.....	26	Aug. 1, 1886	1880	13,655	1892	38,541	23,457
Flatbush.....	29	Apr. 25, 1894	1880	7,634	1892	12,625	} 34,387
Gravesend.....	31	May 3, 1894	1880	3,674	1892	8,418	
New Utrecht.....	30	July 1, 1894	1880	4,742	1892	9,129	
Flatlands.....	32	Jan. 1, 1896	1880	3,127	1892	4,234	4,749

The intercensal population of these towns has been calculated by the geometrical method, using the census populations given above as the basis.

VITAL STATISTICS.

CITY AND BOROUGH OF BROOKLYN.

Deaths, Births, Marriages and Still-births Reported from 1866 to 1912, inclusive.

Year.	Deaths.	Births.	Marriages.	Still-births.
1866.....	8,683	*3,124	*853	.....
1867.....	8,389	5,224	1,677	.....
1868.....	8,750	4,802	2,130	.....
1869.....	8,759	5,349	2,461	.....
1870.....	9,546	4,817	2,367	.....
1871.....	10,259	4,424	2,447	.....
1872.....	10,648	4,216	2,561	.....
1873.....	10,668	5,027	2,520	1,003
1874.....	11,011	7,668	2,675	1,033
1875.....	12,470	8,576	2,734	978
1876.....	12,334	9,723	2,850	986
1877.....	11,362	10,507	3,047	819
1878.....	11,075	10,747	3,991	844
1879.....	11,569	10,462	3,322	885
1880.....	13,222	11,975	3,814	880
1881.....	14,533	10,906	3,948	923
1882.....	15,014	10,801	4,584	1,076
1883.....	13,758	11,050	4,150	1,011
1884.....	14,116	11,718	4,510	1,659
1885.....	15,369	11,588	4,364	1,184
1886.....	15,790	11,132	4,910	1,193
1887.....	17,078	12,750	5,700	1,299
1888.....	16,061	11,562	4,763	1,277
1889.....	18,480	17,075	9,606	1,279
1890.....	19,827	15,000	7,500	1,305
1891.....	21,349	16,500	7,500	1,733
1892.....	20,807	18,000	7,800	1,682
1893.....	21,017	19,250	7,350	1,550
1894.....	21,183	19,419	5,935	1,673
1895.....	22,568	20,465	6,779	1,770
1896.....	22,501	21,424	7,116	1,807
1897.....	20,674	21,109	7,254	1,919
1898.....	21,989	21,395	7,129	1,888
1899.....	21,649	21,203	7,612	1,688
1900.....	23,507	22,572	8,124	1,813
1901.....	23,271	22,182	8,303	1,776
1902.....	22,344	23,507	9,014	1,829
1903.....	22,192	27,292	9,616	1,838
1904.....	24,831	28,859	10,019	1,922
1905.....	23,935	30,972	10,782	1,991
1906.....	25,024	34,538	11,966	2,071
1907.....	26,043	38,632	12,916	2,303
1908.....	23,938	41,906	10,171	2,286
1909.....	24,365	41,494	11,110	2,202
1910.....	25,676	42,708	12,881	2,221
1911.....	24,511	45,699	13,748	2,188
1912.....	23,994	45,454	14,563	2,230

* Marriages and births were first recorded in the last eight months of the year 1866.

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population of the Borough

Ward.	Date of Formation.	From What Taken.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.
1st.....	1834	Village and Town of Brooklyn....							1,523	2,148
2d.....	1834								4,674	5,447
3da.....	1834								2,764	3,834
4th.....	1834								5,724	6,827
5th.....	1834		2,378	4,402	3,805	7,175	10,791	15,394	4,510	7,415
6th.....	1834	Town of Brooklyn							2,139	4,043
7th.....	1834								2,042	4,521
8thb.....	1834								487	944
9thb.....	1834								666	1,054
10thb....	1850									
11th.....	1863	5th Ward.....								
12th.....	1863	6th Ward.....								
13th.....	1854	Williamsburg.....								
14th.....	1854									
15th.....	1854									5,094
16th.....	1854	Bushwick.....								
17th.....	1854		656	798	759	930	958	1,620	3,325	1,295
18th.....	1854									
19th.....	1856	7th and 13th Wards..								
20th.....	1863	5th Ward.....								
21st.....	1868	7th Ward.....								
22d.....	1868	8th Ward.....								
23d.....	1873	7th Ward.....								
24th.....	1873	9th Ward.....								
25th.....	1873	7th Ward.....								
26th.....	1886	New Lots.....								
27th.....	1892	18th Ward.....								
28th.....	1892									
29th.....	1894	Flatbush.....	946	1,159	1,062	1,027	1,049	1,143	1,537	2,099
30th.....	1894	New Utrecht.....	778	907	970	1,009	982	1,217	1,287	1,283
31st.....	1894	Gravesend.....	489	520	552	534	408	565	695	799
32d.....	1896	Flatlands.....	493	517	507	512	491	596	684	810
Total....			5,740	8,303	7,655	11,187	14,679	20,535	32,057	47,613

NOTE.—Flatbush, New Utrecht, Gravesend and Flatlands were formed in 1871; New Lots was formed
 * Inmates of institutions, Kings County at large, not included in Ward figures.

a. Present Third Ward formed from Tenth in 1878; old Third Ward is now part of First.

b. Present Eighth, Ninth and Tenth Wards formed in 1868; the Ninth took in part of the Twenty-

VITAL STATISTICS.

of Brooklyn by Wards.

1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.	United States Census, 1910.
4,622	6,062	6,441	6,967	6,128	6,476	16,084	18,729	20,040	22,784	20,327	21,847
6,903	9,357	8,383	9,817	8,760	9,117	8,860	9,254	8,986	10,529	8,565	6,911
5,936	8,749	8,900	10,084	8,890	9,984	15,809	18,271	18,754	24,140	17,949	15,882
8,819	11,032	12,282	11,766	11,506	12,087	12,616	12,819	12,324	15,580	12,568	10,445
9,419	13,682	16,352	17,400	17,820	20,490	18,591	18,517	20,175	19,175	18,862	19,415
10,651	11,536	18,490	22,710	26,407	28,296	34,072	35,437	37,693	48,939	42,485	46,457
9,958	6,371	12,523	12,096	15,968	22,312	26,488	31,663	35,726	39,490	40,471	44,014
1,369	2,585	5,318	9,190	9,829	9,592	12,127	17,388	31,239	42,758	52,414	82,591
1,897	3,261	9,133	17,342	23,443	15,279	13,643	15,044	17,696	21,081	42,876	50,414
.....	11,782	21,749	25,258	28,668	34,592	24,866	27,140	34,031	50,318	39,100	41,233
.....	12,421	22,213	28,821	18,242	21,243	21,629	21,680	22,693	25,007	22,608	21,659
.....	.....	6,990	11,083	13,085	18,302	17,525	22,201	27,368	31,734	30,354	29,262
11,338	30,780	14,044	17,958	17,791	18,711	19,547	21,029	21,628	24,282	24,029	30,092
		12,414	15,475	15,425	20,649	23,925	25,559	27,246	32,629	31,483	33,345
		6,559	10,566	11,449	18,406	21,255	23,654	27,630	30,319	30,269	35,874
1,857	3,739	15,350	21,181	24,379	26,438	39,206	42,712	45,720	51,152	56,550	68,261
		5,508	7,934	10,234	17,353	23,998	30,088	41,424	46,315	57,309	70,324
.....	.....	2,601	4,316	6,319	11,607	17,459	23,926	74,960	22,267	25,133	35,759
.....	.....	.....	6,697	8,055	16,321	21,908	27,661	36,244	38,187	37,645	44,881
.....	.....	.....	.....	13,980	19,179	21,430	24,188	24,136	26,120	25,446	27,485
.....	.....	.....	.....	.....	27,904	24,834	31,956	50,118	57,362	58,957	78,726
.....	.....	.....	.....	.....	11,761	17,736	25,473	50,250	57,807	66,575	81,329
.....	.....	.....	.....	.....	.....	10,005	14,396	29,348	33,292	61,813	65,552
.....	.....	.....	.....	.....	.....	5,799	8,823	16,771	17,888	31,767	80,508
.....	.....	.....	.....	.....	.....	13,081	19,055	44,638	56,682	48,328	63,834
.....	.....	2,261	3,271	5,009	9,800	11,047	13,655	29,505	38,541	66,086	177,605
.....	.....	.....	.....	.....	.....	.....	.....	.....	34,695	43,961	60,852
.....	.....	.....	.....	.....	.....	.....	.....	.....	38,882	77,912	92,608
2,225	3,177	3,280	3,471	2,778	6,309	6,940	7,634	12,338	12,625	27,188	73,048
1,863	2,129	2,730	2,781	3,394	3,296	3,843	4,742	8,854	9,129	24,700	77,116
898	1,064	1,256	1,286	1,627	2,131	2,180	3,674	6,937	8,418	14,609	29,610
936	1,155	1,578	1,652	1,904	2,286	2,651	3,127	4,075	4,234	8,243	17,412
78,691	138,882	216,355	279,122	311,090	419,921	509,154	599,495	838,547	{ *3,707 996,071 }	1,166,582	1,634,351

from Flatbush in 1852.

second in 1891

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY AND BOROUGH OF BROOKLYN.
Population, Annual Number of Deaths, Death Rate per 1,000 Population, and Number of Deaths from Prominent Causes with Rate per 100,000 Population.

Year.	Population.	Total Deaths.	Death Rate per 1,000.	Diphtheria and Croup.		Scarlet Fever.		Measles.		Typhoid Fever.		Small-Pox.		Typhus Fever.		Whooping Cough.		Malarial Fever.		Bronchitis.	
				Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1868.....	354,421	8,750	24.60	250	73.86	487	137.40	30	8.49	103	29.90	2	95	20	5.94	101	53.88	86	27.95	182	51.34
1869.....	375,488	8,750	23.20	315	83.86	338	92.66	202	60.76	96	25.55	21	5.90	12	3.19	103	51.38	90	27.82	212	56.41
1870.....	390,401	9,350	24.01	410	78.00	320	82.30	62	16.21	111	27.92	135	33.96	7	1.76	110	17.86	143	35.97	181	46.38
1871.....	413,300	10,250	24.82	412	90.68	522	126.39	67	16.21	122	29.25	373	90.24	8	1.93	110	26.60	138	33.38	231	55.88
1872.....	430,038	10,668	24.76	511	118.80	577	76.05	50	13.72	140	33.65	737	171.40	12	2.70	96	22.32	146	33.95	243	55.88
1873.....	447,347	10,968	24.51	577	129.00	314	70.29	60	15.42	130	23.02	116	25.03	3	0.67	130	30.40	153	34.20	243	54.31
1874.....	465,352	11,011	23.66	898	193.00	470	102.86	90	19.38	121	27.41	53	11.30	7	1.50	130	27.94	124	26.85	285	61.26
1875.....	483,788	12,470	25.78	1,405	290.50	304	62.86	150	31.82	102	17.41	619	128.00	9	1.86	161	33.28	137	27.42	369	76.30
1876.....	490,600	12,364	24.68	1,223	245.00	352	70.40	159	31.82	97	19.41	309	61.85	8	1.60	198	38.93	137	27.42	374	70.46
1877.....	515,927	11,301	22.02	1,103	213.80	730	141.50	167	31.82	82	15.89	5	96	3	.58	118	22.87	154	29.85	310	60.86
1878.....	532,780	11,565	20.78	861	161.60	303	68.14	67	12.58	59	11.07	.....	.....	.....	.....	195	36.60	181	34.54	365	68.52
1879.....	550,202	11,075	20.12	939	170.60	334	62.52	38	6.91	50	10.72	.....	.....	.....	.....	204	37.07	145	26.35	379	87.06
1880.....	566,155	13,223	23.26	1,538	270.60	322	56.68	156	27.45	71	12.49	.....	.....	.....	.....	111	10.53	250	45.05	495	87.10
1881.....	586,365	14,533	24.78	1,607	274.10	351	60.00	156	9.55	90	16.88	142	24.22	3	.51	118	20.13	296	52.20	471	80.31
1882.....	605,100	15,011	24.80	965	159.50	892	147.40	168	27.76	93	15.37	65	10.74	1	.17	249	41.15	289	47.77	684	113.00
1883.....	624,556	13,758	22.01	727	116.40	595	80.66	69	11.00	102	14.73	.....	.....	.....	.....	132	21.13	358	41.31	573	91.76
1884.....	644,374	14,116	21.80	665	103.20	218	33.83	114	17.69	107	16.60	2	31	.....	.....	222	34.45	272	42.20	622	96.50
1885.....	665,234	15,369	23.10	832	125.10	363	54.58	175	26.31	153	23.00	3	35	2	.30	157	23.60	242	36.38	675	101.50
1886.....	690,618	15,790	22.70	1,185	170.30	340	48.88	106	15.24	123	17.68	109	14.89	3	.43	260	37.38	211	34.97	700	100.80
1887.....	732,120	17,078	23.32	1,453	198.50	271	37.02	172	23.50	143	19.53	.....	.....	.....	.....	194	25.64	199	26.30	786	103.90
1888.....	756,727	16,061	21.22	1,285	169.80	475	62.78	50	26.21	151	20.22	90	11.89	.....	.....	281	35.93	182	23.27	922	125.00
1889.....	782,205	18,480	23.65	1,467	187.50	237	28.09	182	22.52	180	22.52	.....	.....	.....	.....	238	29.45	168	20.70	1,010	128.00
1890.....	808,258	19,827	24.53	1,283	158.70	227	58.22	203	24.37	186	21.61	.....	.....	.....	.....	140	16.80	120	14.40	1,015	121.80
1891.....	833,133	21,340	25.63	1,180	141.60	485	58.22	203	24.37	180	21.61	.....	.....	.....	.....	157	18.50	140	15.81	1,087	114.00
1892.....	858,772	20,807	24.22	1,137	132.40	412	47.99	168	10.56	166	18.87	51	5.94	.....	.....	261	29.49	140	15.81	1,066	108.50
1893.....	885,201	21,017	23.74	878	99.20	294	31.39	111	12.54	179	20.22	20	22.60	.....	.....	243	25.18	127	13.86	832	86.22
1894.....	905,158	21,183	21.95	1,660	172.00	184	19.48	204	21.14	159	16.48	102	10.57	.....	.....	263	26.43	138	13.86	832	86.22
1895.....	925,484	22,568	22.67	1,454	146.10	128	14.46	192	19.20	173	17.38	1	90	.....	.....	170	17.33	148	14.33	871	84.34
1896.....	943,811	22,501	21.79	1,310	126.80	150	14.52	333	32.25	163	15.78	.....	.....	.....	.....	164	15.39	107	10.41	802	75.26
1897.....	965,432	22,671	19.40	998	93.65	187	17.50	174	17.50	173	16.23	3	28	.....	.....	170	15.39	107	10.41	802	75.26
1898.....	1,000,084	21,980	20.01	745	67.80	150	14.47	194	17.38	205	24.57	.....	.....	.....	.....	234	21.39	90	8.10	669	63.60
1899.....	1,169,553	23,507	19.10	863	73.10	130	11.11	310	26.31	205	18.08	.....	.....	.....	.....	234	21.39	90	8.10	669	63.60
1900.....	1,295,796	23,271	19.30	732	60.71	495	41.06	162	13.41	272	22.55	.....	.....	.....	.....	235	20.10	58	4.96	775	66.26
1901.....	1,243,162	22,344	17.97	762	61.80	275	22.13	239	19.23	252	20.85	9	75	.....	.....	188	15.12	46	3.71	815	65.56
1902.....	1,281,686	22,192	17.32	830	64.80	244	19.05	167	13.04	267	20.85	.....	.....	.....	.....	188	15.12	46	3.71	815	65.56
1903.....	1,321,103	24,831	18.79	706	53.41	282	21.36	333	25.20	303	22.93	6	35	.....	.....	190	14.60	36	2.81	653	50.06
1904.....	1,363,186	23,935	17.56	594	43.59	182	13.36	303	25.20	270	20.85	.....	.....	.....	.....	190	14.60	36	2.81	653	50.06
1905.....	1,415,780	25,021	17.72	703	49.67	258	18.23	446	31.52	231	16.25	6	42	.....	.....	190	14.60	36	2.81	653	50.06
1906.....	1,470,420	26,043	17.68	603	41.02	321	21.84	288	10.60	271	18.41	8	54	.....	.....	190	14.60	36	2.81	653	50.06
1907.....	1,527,101	23,938	15.67	549	35.96	477	31.24	307	20.11	206	13.49	.....	.....	.....	.....	190	14.60	36	2.81	653	50.06
1908.....	1,586,090	24,365	15.36	556	35.06	326	20.56	509	32.10	101	12.04	.....	.....	.....	.....	190	14.60	36	2.81	653	50.06
1909.....	1,647,294	25,676	15.57	558	33.88	385	23.27	422	25.78	108	12.04	.....	.....	.....	.....	190	14.60	36	2.81	653	50.06
1910.....	1,710,861	24,511	14.33	595	33.09	295	17.25	128	7.48	121	12.33	.....	.....	.....	.....	190	14.60	36	2.81	653	50.06
1911.....	1,776,878	23,994	13.50	400	22.52	225	12.66	203	11.43	231	13.01	2	11	.....	.....	190	14.60	36	2.81	653	50.06
1912.....	1,776,878	23,994	13.50	400	22.52	225	12.66	203	11.43	231	13.01	2	11	.....	.....	190	14.60	36	2.81	653	50.06

a New Lots annexed.

n Flatbush, Gravesend, and New Utrecht annexed.

c Flatlands annexed.

Population, Annual Number of Deaths, Death Rate per 1,000 Population, and Number of Deaths from Prominent Causes with Rate per 100,000 Population.—(Continued.)

Year.	Pulmonary Tuberculosis.		Pneumonia.		Diarrhoeal Diseases.		Diarrhoeal Diseases Under 5 Yrs. of Age.		Cancer.		Bright's Disease and Nephritis.		Diseases of Nervous System.		Puerperal Diseases.		Violence.		Sunstroke and Heat.		Suicides.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
1868.....	1,068	309.80	439	129.70	1,699	479.30	1,530	431.60	112	31.60	109	29.90	1,054	297.30	34	9.59	292	73.92	93	10.16	27	7.62
1869.....	1,136	322.40	577	153.60	1,249	332.50	1,130	300.80	131	34.87	157	41.79	1,028	273.70	36	9.58	269	60.96	4	1.06	19	5.06
1870.....	1,281	362.30	570	130.80	1,473	370.50	1,280	324.30	134	33.71	134	33.71	1,528	384.40	88	22.14	269	67.68	.....	.....	25	6.27
1871.....	1,355	327.70	613	148.30	1,578	392.30	1,355	306.40	155	37.40	.....	.....	1,596	386.00	108	26.12	329	77.40	.....	.....	28	7.29
1872.....	1,465	340.70	778	189.00	1,718	399.50	1,559	360.40	147	34.18	216	50.24	1,943	451.80	141	36.12	338	78.60	.....	.....	31	7.21
1873.....	1,376	307.50	745	166.50	1,504	340.60	1,411	315.40	168	37.55	211	47.16	1,388	310.20	131	29.38	330	69.74	5	1.12	31	6.93
1874.....	1,267	327.50	741	159.00	1,600	300.00	1,272	273.40	197	42.36	228	49.00	1,231	264.50	157	33.74	303	65.12	6	1.29	34	7.31
1875.....	1,522	314.60	883	184.40	1,395	288.40	1,262	260.00	200	41.35	.....	.....	1,292	267.10	157	32.45	312	64.50	.....	.....	39	8.05
1876.....	1,539	308.00	883	176.70	1,516	309.40	1,367	273.60	192	38.43	.....	.....	1,225	245.20	128	25.62	322	72.40	.....	.....	59	11.81
1877.....	1,587	307.60	724	140.30	1,509	304.10	1,332	258.20	200	38.76	328	63.58	1,123	217.60	156	30.23	299	67.90	1	1.16	50	9.69
1878.....	1,509	283.50	820	155.60	1,208	243.60	1,084	253.50	233	43.71	332	71.34	1,093	225.00	149	27.97	294	55.20	13	2.44	52	9.76
1879.....	1,665	302.60	975	177.20	1,364	207.60	1,127	204.80	231	41.08	318	57.80	1,238	225.00	182	33.08	316	77.44	22	4.00	37	6.72
1880.....	1,730	295.50	972	153.40	1,738	305.80	1,498	263.60	221	38.89	327	70.62	1,387	244.00	155	27.63	320	73.91	36	6.33	31	5.46
1881.....	1,754	299.20	1,022	171.30	1,864	317.90	1,717	268.30	254	43.33	414	70.50	1,512	257.90	162	27.63	408	68.58	48	8.19	55	9.38
1882.....	1,820	299.20	1,204	199.00	2,082	344.10	1,717	268.30	285	47.10	481	79.50	1,498	244.00	172	28.42	433	71.56	36	5.95	62	10.24
1883.....	1,847	295.70	1,245	199.30	1,799	288.00	1,482	237.30	262	41.95	507	78.66	1,357	228.50	148	23.70	414	66.30	29	4.64	58	9.29
1884.....	1,965	295.40	1,146	173.50	2,081	322.90	1,743	270.40	323	50.11	485	78.66	1,357	210.50	208	32.47	477	66.26	41	6.36	66	10.24
1885.....	2,085	295.40	1,466	217.40	2,113	317.40	1,807	271.60	303	45.25	615	92.30	1,483	222.90	216	32.47	477	66.26	8	1.15	53	7.97
1886.....	2,085	295.40	1,466	217.40	2,113	317.40	1,807	271.60	303	45.25	615	92.30	1,483	222.90	216	32.47	477	66.26	32	4.49	71	8.33
1887.....	2,051	276.80	1,418	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1888.....	2,051	276.80	1,418	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1889.....	2,053	268.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1890.....	2,169	268.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1891.....	2,169	268.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1892.....	2,178	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1893.....	2,178	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1894.....	2,299	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1895.....	2,299	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1896.....	2,299	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1897.....	2,299	241.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1898.....	2,394	214.80	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1899.....	2,445	209.10	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1900.....	2,445	209.10	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1901.....	2,479	186.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1902.....	2,317	187.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1903.....	2,317	187.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1904.....	2,317	187.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1905.....	2,420	177.60	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1906.....	2,557	175.20	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1907.....	2,557	175.20	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1908.....	2,484	148.00	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1909.....	2,547	147.50	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1910.....	2,430	147.50	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1911.....	2,464	147.50	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91
1912.....	2,441	137.40	1,414	193.70	1,969	260.90	1,672	228.40	349	47.08	657	89.75	1,897	259.10	154	21.53	485	66.26	34	4.49	75	9.91

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

CITY OF

Cases of Contagious and Infectious Diseases

Year.	Croup.	Diph- theria.	Measles.	Scarlet Fever.	Small- pox.	Typhoid Fever.	Typhus.
1873.....		319	.....	930	426	207	10
1874.....		1,651	.....	2,448	268	214	9
1875.....		2,669	.....	1,269	2,519	263	12
1876.....		2,329	.....	1,657	1,131	191	11
1877.....		2,280	.....	2,930	87	180	5
1878.....		1,744	.....	1,988	3	168	.....
1879.....		1,801	219	2,208	6	137	.....
1880.....		3,058	2,572	1,727	10	143	.....
1881.....		3,218	906	4,554	498	181	9
1882.....		4,599	2,670	4,599	185	148	2
1883.....		1,185	1,604	3,167	12	202	.....
1884.....		976	1,225	1,990	14	194	.....
1885.....		1,348	3,441	2,288	16	435	.....
1886.....		1,602	923	1,645	125	343	.....
1887.....		1,995	2,479	1,877	215	444	.....
1888.....		2,297	674	2,675	374	394	.....
1889.....		2,798	4,723	2,668	2	399	.....
1890.....		2,241	1,821	1,657	.....	313	.....
1891.....		1,850	2,892	2,701	.....	418	.....
1892.....		1,829	3,118	3,078	184	243	.....

Reporting of measles was begun in the latter part of 1879; croup in 1895; typhoid fever not fully reported.
 * Croup included in diphtheria since 1900.

VITAL STATISTICS.

BROOKLYN.

Reported from 1873 to 1912, inclusive.

Year.	Croup.	Diph- theria.	Measles.	Scarlet Fever.	Small- pox.	Typhoid Fever.	Typhus.	Tubercu- losis.
1893.....		1,672	2,272	2,961	449	216	.....	.....
1894.....		3,812	4,688	2,119	459	284	.....	.....
1895.....	411	4,276	3,438	1,991	11	285	.....	.....
1896.....	319	4,912	7,074	2,471	3	245	.....	.....
1897.....	285	3,862	4,695	2,924	7	312	.....	.....
1898.....	208	3,008	2,933	2,136	.....	581	.....	.....
1899.....	206	2,688	3,098	2,308	31	422	.....	.....
1900.....		*3,856	5,111	1,878	12	697	.....	.....
1901.....		3,942	3,511	5,188	410	644	.....	.....
1902.....		4,236	5,506	3,529	503	961	.....	2,838
1903.....		5,705	4,862	2,921	15	1,003	.....	3,426
1904.....		5,026	10,321	4,037	29	1,050	.....	4,339
1905.....		4,307	7,053	2,884	34	1,913	.....	4,897
1906.....		5,211	13,827	2,760	52	1,215	.....	5,324
1907.....		5,398	4,509	5,436	46	1,341	.....	5,157
1908.....		5,451	12,807	8,123	6	999	.....	6,233
1909.....		4,735	9,881	4,275	3	1,131	.....	6,407
1910.....		5,023	12,630	6,474	2	1,113	.....	7,592
1911.....		4,492	7,728	6,136	4	1,104	.....	6,066
1912.....		4,678	12,188	4,321	17	1,284	.....	5,828

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population of Borough of

Ward.	Date of Formation.	Formerly Known as	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.
1st.....	1898	*Long Island City....	.....	.....	.....	In this year the aggregate of the county alone was taken.	.....	.....	.....	.....
2d.....	1898	Newtown.....	2,312	2,437	2,472		2,478	2,610	3,505	5,054
3d.....	1898	Flushing.....	1,818	2,230	2,271		2,325	2,820	3,643	4,124
4th.....	1898	Jamaica.....	1,661	2,110	1,880		2,401	2,376	2,885	3,781
5th.....	1898	†Hempstead.....	.....	.....	.....		.....	.....	.....	.....
Total.....			5,791	6,777	6,623	.....	7,204	7,806	10,033	12,959

* Formed in 1870 from Newtown. The

† Only part of Hempstead was consolidated with the other towns forming Greater

Population of Borough of

Ward.	Date of Formation.	Formerly Known as	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.
1st.....	1898	Castleton.....	1,056	1,301	1,348	1,527	1,786	2,216	2,868	4,275
2d.....	1898	*Middletown.....	.....	.....	.....	.....	.....	.....	.....	.....
3d.....	1898	Northfield.....	1,377	1,595	1,710	1,980	1,984	2,162	2,297	2,745
4th.....	1898	Southfield.....	932	1,007	998	1,012	719	971	845	1,619
5th.....	1898	Westfield.....	1,198	1,444	1,446	1,616	1,443	1,773	1,681	2,326
Total.....			4,563	5,347	5,502	6,135	5,932	7,122	7,691	10,965

* Formed in 1860, from Castleton and Southfield.

† Includes 126 inmates of Institutions

CITY OF

Population by Census,

Boroughs.	1800.	1810.	1814.	1820.	1825.	1830.	1835.	1840.	1845.	1850.
Manhattan.....	60,489	96,373	95,519	123,706	160,686	197,112	268,089	312,710	371,223	515,547
The Bronx.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,436
Brooklyn.....	5,740	8,303	7,655	11,187	14,679	20,535	32,057	47,613	78,691	138,882
Queens.....	5,791	6,777	6,623	*6,914	7,204	7,806	10,033	12,959	13,322	16,831
Richmond.....	4,563	5,347	5,502	6,135	5,932	7,122	7,691	10,965	13,674	15,061
Entire City.....	76,583	116,800	115,299	147,942	188,501	232,575	317,870	384,247	476,910	690,757

* Arithmetical mean between previous and following census (see note to Queens' table).

NOTE.—The census population, as given in this table, is somewhat less than the true population of the to the tables for Manhattan and The Bronx and Queens.

VITAL STATISTICS.

Queens, by Wards.

1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.	New York State Census, 1905.	United States Census, 1910.
.....	.....	.....	.....	.....	.....	15,587	17,129	30,506	35,745	48,272	.....	61,763
5,521	7,208	4,694	13,725	13,891	20,274	10,614	9,804	17,549	19,776	40,903	.....	105,219
3,918	5,376	7,970	10,189	10,813	14,650	15,357	15,906	19,803	20,816	25,870	.....	37,171
3,883	4,247	5,632	6,515	6,777	7,745	8,983	10,088	14,441	17,654	30,761	.....	67,412
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,193	.....	12,476
13,322	16,831	18,296	30,429	31,481	42,669	50,541	52,927	82,299	93,991	152,999	198,241	284,041

other towns were formed in 1788.

New York, and the population previous to consolidation cannot be given.

Richmond, by Wards.

1845.	1850.	1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.	New York State Census, 1905.	United States Census, 1910.
5,203	5,389	8,252	6,678	7,683	9,504	10,957	12,679	16,423	17,261	21,441	23,659	00,000
.....	.....	.....	6,243	6,866	7,589	8,332	9,029	10,557	11,477	13,200	14,035	00,000
3,343	4,020	4,187	4,841	5,201	5,949	6,619	7,014	9,811	9,641	13,701	15,347	00,000
2,631	2,709	5,449	3,645	4,407	5,082	4,426	4,980	6,644	6,324	9,516	9,481	0,000
2,497	2,943	3,501	3,985	4,052	4,905	4,862	5,289	8,258	8,648	9,163	10,198	00,000
13,674	15,061	21,389	25,392	28,209	33,029	35,196	38,991	51,693	53,351	67,021	72,846	85,969

The other towns were formed in 1788.

not credited to wards.

NEW YORK.

1800-1910, inclusive.

1855.	1860.	1865.	1870.	1875.	1880.	United States Census, 1890.	New York State Census, 1892.	United States Census, 1900.	New York State Census, 1905.	United States Census, 1910.
629,810	813,669	726,386	942,292	1,005,692	1,164,673	1,441,216	1,801,739	1,850,093	2,112,697	2,331,542
12,436	16,343	19,024	28,981	36,194	41,626	74,085		200,507	271,629	430,980
216,355	279,122	311,090	419,921	509,154	599,495	838,547	996,071	1,166,582	1,358,891	1,634,351
18,296	30,429	31,481	42,669	50,541	52,927	82,299	93,991	152,999	198,241	284,041
21,389	25,392	28,209	33,029	35,196	38,991	51,693	53,351	67,021	72,846	85,969
898,286	1,164,955	1,116,190	1,466,892	1,636,777	1,897,712	2,487,840	2,945,152	3,437,202	4,014,304	4,766,883

territory now comprised within the limits of The City of New York, for the reasons given in the foot note

Population, Deaths and Death Rates, Former City of New York,⁽¹⁾ (Manhattan and The Bronx) and Former City of Brooklyn (Borough of Brooklyn) Combined.—Principal Causes, Years 1868 to 1912, Inclusive.

Year.	Population.	Total Deaths.	Death Rate.	Decennial Rate.	Total Deaths Under 5 Years.	Rate on General Population.	Decennial Rate.	Rate on Population Under 5 Years.	Decennial Rate.	Typhoid Fever.	Rate.	Decennial Rate.	Typhus Fever.	Rate.	Decennial Rate.	Malarial Fever.	Rate.	Decennial Rate.	Small-pox.	Rate.	Decennial Rate.	Measles.	Rate.	Decennial Rate.
1868	1,205,885	33,609	27.66	27.17	.....	.....	.....	.....	.....	432	.93	.....	157	.31	.....	50	.48	.....	82	.30	.....	206	.61	.....
1869	1,270,022	30,920	26.68	27.17	.....	.....	.....	.....	.....	475	.37	.....	137	.18	.....	50	.22	.....	223	.18	.....	208	.62	.....
1870	1,340,704	30,721	26.30	27.17	.....	.....	.....	.....	.....	533	.40	.....	103	.18	.....	50	.35	.....	128	.27	.....	178	.27	.....
1871	1,360,320	31,235	27.10	27.17	.....	.....	.....	.....	.....	343	.35	.....	73	.05	.....	50	.47	.....	1,178	.36	.....	476	.35	.....
1872	1,368,748	31,203	26.06	27.17	.....	.....	.....	.....	.....	535	.38	.....	68	.07	.....	50	.47	.....	1,660	.19	.....	488	.37	.....
1873	1,420,018	40,055	28.03	27.17	.....	.....	.....	.....	.....	416	.29	.....	42	.03	.....	50	.41	.....	233	.16	.....	522	.26	.....
1874	1,405,959	39,738	26.57	27.17	.....	.....	.....	.....	.....	386	.26	.....	21	.01	.....	50	.38	.....	537	.36	.....	488	.27	.....
1875	1,528,184	43,170	28.25	27.17	.....	.....	.....	.....	.....	478	.31	.....	37	.02	.....	50	.38	.....	1,827	.24	.....	497	.27	.....
1876	1,575,132	44,180	26.36	27.17	.....	.....	.....	.....	.....	422	.27	.....	28	.02	.....	50	.33	.....	624	.10	.....	573	.33	.....
1877	1,643,524	37,505	23.17	19.97	12.11	11.13	105.3	97.8	.....	425	.26	.....	20	.01	.....	50	.40	.....	19	.01	.....	488	.23	.....
1878	1,673,066	38,983	22.76	25.27	17,794	10.85	11.13	97.8	.....	380	.23	.....	4	.002	.....	50	.46	.....	20	.01	.....	488	.23	.....
1879	1,724,823	39,011	23.14	25.27	17,978	10.42	11.13	97.8	.....	327	.20	.....	4	.002	.....	50	.44	.....	27	.02	.....	488	.23	.....
1880	1,777,351	45,150	25.41	25.27	20,865	11.73	11.13	102.1	97.8	443	.25	.....	3	.002	.....	50	.45	.....	30	.02	.....	488	.23	.....
1881	1,830,876	53,157	29.03	25.27	24,602	13.41	11.13	116.8	97.8	609	.33	.....	66	.03	.....	50	.47	.....	32	.02	.....	488	.23	.....
1882	1,886,017	52,938	28.06	25.27	24,957	13.07	11.13	113.7	97.8	609	.33	.....	66	.03	.....	50	.47	.....	32	.02	.....	488	.23	.....
1883	1,942,820	47,760	24.59	25.27	19,604	10.14	11.13	97.8	.....	717	.37	.....	15	.008	.....	50	.48	.....	30	.02	.....	488	.23	.....
1884	2,001,338	49,150	24.58	25.27	19,604	10.14	11.13	97.8	.....	583	.29	.....	27	.013	.....	50	.48	.....	30	.02	.....	488	.23	.....
1885	2,061,612	51,051	24.76	25.27	22,421	10.68	11.13	94.3	97.8	558	.27	.....	17	.008	.....	50	.48	.....	30	.02	.....	488	.23	.....
1886	2,132,818	53,141	24.92	25.27	24,343	11.01	11.13	94.3	97.8	556	.26	.....	17	.008	.....	50	.48	.....	30	.02	.....	488	.23	.....
1887	2,217,272	50,011	25.34	25.27	24,343	11.01	11.13	94.3	97.8	564	.26	.....	17	.008	.....	50	.48	.....	30	.02	.....	488	.23	.....
1888	2,279,068	50,930	24.76	23.63	25,617	11.13	9.2	96.8	86.2	517	.23	.....	4	.0017	.....	50	.46	.....	30	.02	.....	488	.23	.....
1889	2,340,006	58,159	24.76	23.63	25,617	10.91	9.2	94.8	86.2	558	.24	.....	.....	.....	.....	50	.44	.....	30	.02	.....	488	.23	.....
1890	2,420,817	59,030	24.76	23.63	24,767	10.33	9.2	94.8	86.2	534	.22	.....	.....	.....	.....	50	.44	.....	30	.02	.....	488	.23	.....
1891	2,492,787	65,008	26.11	23.63	27,612	11.08	9.2	96.3	86.2	564	.22	.....	45	.017	.....	50	.45	.....	302	.11	.....	488	.23	.....
1892	2,566,806	65,136	25.38	23.63	27,612	10.77	9.2	93.7	86.2	562	.22	.....	200	.08	.....	50	.45	.....	256	.09	.....	488	.23	.....
1893	2,643,211	65,503	24.78	23.63	26,038	10.06	9.2	87.6	86.2	560	.21	.....	.....	.....	.....	50	.45	.....	11	.004	.....	488	.23	.....
1894	2,774,511	62,358	22.47	23.63	26,793	9.66	9.2	86.2	86.2	485	.17	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1895	2,868,385	63,988	23.00	23.63	27,498	9.59	9.2	76.4	86.2	495	.16	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1896	2,938,950	64,123	21.82	23.63	25,814	8.79	9.2	76.4	86.2	472	.16	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1897	3,005,985	59,551	19.81	23.63	24,037	7.82	9.2	68.0	86.2	416	.12	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1898	3,075,856	61,560	19.56	23.63	22,463	7.14	6.6	68.0	86.2	409	.16	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1899	3,148,128	61,560	19.56	23.63	22,463	7.14	6.6	68.0	86.2	409	.16	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1900	3,225,324	66,734	20.69	23.63	24,425	7.57	6.6	68.0	86.2	473	.21	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1901	3,324,770	66,575	20.02	23.63	23,035	6.90	6.6	68.0	86.2	484	.21	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1902	3,427,496	64,948	18.69	23.63	23,000	6.71	6.6	68.0	86.2	471	.21	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1903	3,533,053	63,968	18.10	23.63	23,000	6.71	6.6	68.0	86.2	471	.21	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1904	3,643,358	73,574	20.18	23.63	24,778	5.89	6.6	68.0	86.2	617	.17	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1905	3,753,529	69,134	18.43	19.23	23,981	6.21	6.6	68.0	86.2	612	.17	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1906	3,876,245	71,132	18.35	19.23	24,081	6.15	6.6	68.0	86.2	599	.15	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1907	4,004,874	74,041	18.49	19.23	24,037	6.00	6.6	68.0	86.2	601	.17	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1908	4,139,483	67,099	16.42	.....	22,537	5.44	.....	47.1	.....	497	.12	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1909	4,280,463	68,752	16.06	.....	22,537	5.33	.....	46.1	.....	516	.12	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1910	4,428,244	71,304	16.10	.....	22,621	5.11	.....	44.2	.....	508	.11	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1911	4,583,289	69,835	15.24	.....	20,732	4.52	.....	39.1	.....	506	.11	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....
1912	4,746,098	67,486	14.22	.....	19,581	4.11	.....	37.3	.....	449	.09	.....	.....	.....	.....	50	.45	.....	27	.009	.....	488	.23	.....

VITAL STATISTICS.

Population, Deaths and Death Rates, Former City of New York (Manhattan and The Bronx) and Former City of Brooklyn (Borough of Brooklyn) Combined.—Principal Causes, Years 1868 to 1912, Inclusive.—(Continued.)

Year.	Scarlet Fever.	Decennial Rate.	Diphtheria and Croup.	Rate.	Whooping Cough.	Rate.	Decennial Rate.	Cerebrospinal Meningitis.	Rate.	Decennial Rate.	Pulmonary Tuberculosis.	Rate.	Decennial Rate.	Other Tuberculous Diseases.	Rate.	Decennial Rate.	Bronchitis.	Rate.	Decennial Rate.	Pneumonia.	Rate.	Decennial Rate.
1868.....	1,348	1.13	10	1.54	408	1.43	37	.....	.....	.....	4,500	3.74	3.76	.....	.....	.....	586	.....	.....	2,117	1.77	2.02
1869.....	1,314	1.03	91	1,126	551	43	37	.....	.....	.....	4,500	3.54	3.76	.....	.....	.....	1,089	.....	.....	2,677	2.11	2.02
1870.....	1,195	.86	91	1,039	78	1.54	272	.....	.....	.....	5,311	3.96	3.76	.....	.....	.....	1,039	.....	.....	2,356	1.76	2.02
1871.....	1,313	.96	91	1,116	82	1.54	272	.....	.....	.....	5,311	4.05	3.76	.....	.....	.....	1,195	.....	.....	2,447	1.79	2.02
1872.....	1,317	.94	91	1,042	1.17	1.54	661	.....	.....	.....	5,739	4.10	3.76	.....	.....	.....	1,279	.....	.....	2,928	2.09	2.02
1873.....	1,359	.95	91	1,406	1.72	1.54	604	.....	.....	.....	5,739	4.86	3.76	.....	.....	.....	1,311	.....	.....	3,073	2.15	2.02
1874.....	1,358	.91	91	1,457	2.11	1.54	619	.....	.....	.....	5,301	3.74	3.76	.....	.....	.....	1,350	.....	.....	3,142	2.10	2.02
1875.....	1,818	.54	91	1,492	2.94	1.54	568	.....	.....	.....	5,094	3.73	3.76	.....	.....	.....	1,380	.....	.....	3,694	2.12	2.02
1876.....	1,243	.79	91	1,351	2.23	1.54	596	.....	.....	.....	5,733	3.64	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1877.....	1,713	1.06	91	1,526	1.56	1.54	558	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,872	1.77	2.02
1878.....	1,462	.87	74	1,367	1.41	1.70	557	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1879.....	1,821	1.06	74	1,432	1.24	1.70	741	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1880.....	840	.47	74	1,338	2.16	1.70	388	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1881.....	2,615	1.43	74	1,249	1.57	1.70	459	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1882.....	2,958	1.57	74	1,489	2.07	1.70	404	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1883.....	1,249	.64	74	1,380	1.23	1.70	459	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1884.....	826	.41	74	1,303	1.25	1.70	712	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1885.....	922	.45	74	1,012	1.40	1.70	652	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1886.....	711	.33	74	1,380	1.82	1.70	835	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1887.....	860	.39	74	1,509	2.04	1.70	247	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1888.....	1,836	.81	39	1,338	1.08	1.30	707	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1889.....	1,515	.65	39	1,378	1.60	1.30	928	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1890.....	635	.26	39	1,066	1.27	1.30	725	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1891.....	1,705	.68	39	1,150	1.20	1.30	492	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1892.....	1,389	.54	39	1,324	1.26	1.30	563	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1893.....	558	.21	39	1,436	1.30	1.30	803	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1894.....	729	.26	39	1,530	1.63	1.30	515	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1895.....	552	.21	39	1,303	1.27	1.30	759	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1896.....	687	.23	39	1,373	1.05	1.30	614	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1897.....	552	.19	39	1,303	1.27	1.30	759	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1898.....	682	.22	20	1,068	1.51	1.30	614	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1899.....	507	.16	20	1,829	58	53	493	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1900.....	1,130	.34	20	1,219	66	53	553	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1901.....	910	.27	20	1,959	59	53	269	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1902.....	709	.20	20	1,904	58	53	573	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1903.....	816	.22	20	1,978	54	53	305	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1904.....	453	.12	20	1,454	59	53	189	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1905.....	470	.12	20	1,776	46	53	334	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1906.....	742	.19	20	1,614	40	53	355	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1907.....	1,278	.31	20	1,646	40	53	355	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1908.....	734	.17	.....	1,621	38	.....	372	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1909.....	908	.20	.....	1,592	36	.....	269	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1910.....	710	.15	.....	1,196	26	.....	338	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1911.....	593	.12	.....	1,054	22	.....	202	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02
1912.....	593	.12	.....	1,054	22	.....	202	.....	.....	.....	5,733	3.47	3.76	.....	.....	.....	1,611	.....	.....	3,425	2.18	2.02

ANNUAL REPORT OF THE DEPARTMENT OF HEALTH.

Population, Deaths and Death Rates, Former City of New York (Manhattan and The Bronx) and Former City of Brooklyn (Borough of Brooklyn)
(Combined.—Principal Causes, Years 1868 to 1912, Inclusive.—Continued.)

Year.	Diarrhoea under 5 Years.	Rate on Whole Population.	Decennial Rate.	Rate on Population Under 5 Years.	Decennial Rate.	Cancer.	Rate.	Decennial Rate.	Bright's and Nephritis.	Rate.	Decennial Rate.	Heart Disease.	Rate.	Decennial Rate.	Nervous Diseases.	Rate.	Decennial Rate.	Puerperal Diseases.	Rate.	Decennial Rate.	Violence and Suicides.	Rate.	Decennial Rate.
1868.....	950.5	4.61	3.48	5.96	3.08	427	33	63	619	35	67	.....	.....	.....	4,418	3.99	2.88	255	21	32	1,335	1.11	80
1869.....	4,014	3.16	3.48	27.4	30.3	435	34	39	714	56	67	.....	.....	.....	3,978	3.13	2.88	260	20	32	1,191	.94	1.08
1870.....	5,206	3.67	3.48	33	30.3	490	36	39	787	59	67	.....	.....	.....	4,565	3.41	2.88	366	27	32	1,487	1.11	1.08
1871.....	4,268	3.07	3.48	26.7	30.3	490	36	39	714	56	67	.....	.....	.....	4,252	3.11	2.88	480	36	32	1,580	1.15	1.08
1872.....	6,495	4.62	3.48	40.2	30.3	539	38	39	1,105	73	67	.....	.....	.....	4,162	3.65	2.88	617	44	32	1,979	1.42	1.08
1873.....	5,314	3.72	3.48	32.3	30.3	593	41	39	1,067	70	67	.....	.....	.....	4,105	3.62	2.88	558	39	32	1,595	1.05	1.08
1874.....	4,740	3.17	3.48	27.5	30.3	613	41	39	1,056	71	67	.....	.....	.....	3,663	2.45	2.88	550	37	32	1,569	1.05	1.08
1875.....	4,837	3.16	3.48	27.5	30.3	624	41	39	999	59	67	.....	.....	.....	3,709	2.42	2.88	527	34	32	1,515	.99	1.08
1876.....	4,999	3.18	3.48	27.5	30.3	651	41	39	958	61	67	.....	.....	.....	3,682	2.34	2.88	470	30	32	1,935	1.23	1.08
1877.....	4,729	2.91	3.48	25.3	30.3	695	43	39	1,251	77	67	.....	.....	.....	3,480	2.18	2.88	454	28	32	1,345	.83	1.08
1878.....	3,869	2.91	2.69	20.1	23.4	803	48	51	1,251	75	84	.....	.....	.....	3,655	2.14	2.30	449	27	29	1,355	.81	.93
1879.....	4,953	2.87	2.69	25.0	23.4	883	46	51	1,345	78	84	.....	.....	.....	4,070	2.11	2.30	541	31	29	1,359	.79	.93
1880.....	5,313	2.99	2.69	26.0	23.4	880	49	51	1,356	80	84	.....	.....	.....	4,059	2.28	2.30	562	32	29	1,753	.99	.93
1881.....	5,732	3.13	2.69	27.2	23.4	900	52	51	1,601	87	84	.....	.....	.....	4,652	2.54	2.30	588	32	29	1,826	1.00	.93
1882.....	4,779	2.40	2.69	26.2	23.4	1,017	51	51	1,722	90	84	.....	.....	.....	4,463	2.31	2.30	579	31	29	1,910	1.01	.93
1883.....	5,676	2.40	2.69	21.4	23.4	940	48	51	1,680	87	84	.....	.....	.....	4,154	2.14	2.30	564	29	29	1,659	.85	.93
1884.....	5,405	2.73	2.69	23.7	23.4	1,054	53	51	1,670	84	84	.....	.....	.....	4,268	2.14	2.30	647	32	29	1,886	.94	.93
1885.....	5,285	2.57	2.69	22.3	23.4	1,055	51	51	1,892	88	84	.....	.....	.....	4,578	2.22	2.30	610	30	29	1,907	.95	.93
1886.....	4,903	2.54	2.69	20.4	23.4	1,022	50	51	1,885	88	84	.....	.....	.....	4,237	1.33	2.30	638	25	29	1,926	.90	.93
1887.....	5,060	2.54	2.69	21.3	23.4	1,181	53	51	2,014	88	84	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1888.....	5,586	2.54	2.69	21.3	19.7	1,215	53	55	2,014	88	84	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1889.....	5,586	2.54	2.69	21.3	19.7	1,215	53	55	2,014	88	84	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1890.....	5,495	2.54	2.69	20.2	19.7	1,203	51	55	2,599	1.10	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1891.....	5,717	2.54	2.69	20.2	19.7	1,368	57	55	2,910	1.21	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1892.....	6,477	2.48	2.69	21.9	19.7	1,318	53	55	3,169	1.25	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1893.....	6,454	2.51	2.69	21.9	19.7	1,414	55	55	3,030	1.18	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1894.....	6,114	2.51	2.69	21.9	19.7	1,434	54	55	3,141	1.18	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1895.....	6,443	2.51	2.69	21.9	19.7	1,479	53	55	3,068	1.11	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1896.....	5,812	2.51	2.69	21.9	19.7	1,672	56	55	3,466	1.11	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1897.....	5,812	2.51	2.69	21.9	19.7	1,672	56	55	3,466	1.11	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1898.....	6,336	2.51	2.69	21.9	19.7	1,808	59	55	3,582	1.24	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1899.....	5,793	2.51	2.69	21.9	19.7	1,808	62	55	3,582	1.24	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1900.....	5,793	2.51	2.69	21.9	19.7	1,808	62	55	3,582	1.24	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1901.....	5,793	2.51	2.69	21.9	19.7	1,808	62	55	3,582	1.24	1.16	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1902.....	4,873	2.51	2.69	21.9	19.7	2,168	64	55	3,963	1.39	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1903.....	4,873	2.51	2.69	21.9	19.7	2,168	64	55	3,963	1.39	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1904.....	5,331	2.51	2.69	21.9	19.7	2,335	77	67	4,181	1.44	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1905.....	5,331	2.51	2.69	21.9	19.7	2,335	77	67	4,181	1.44	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1906.....	5,127	2.51	2.69	21.9	19.7	2,467	70	67	5,071	1.48	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1907.....	5,127	2.51	2.69	21.9	19.7	2,467	70	67	5,071	1.48	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1908.....	6,060	2.51	2.69	21.9	19.7	2,733	73	67	5,369	1.51	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1909.....	6,060	2.51	2.69	21.9	19.7	2,733	73	67	5,369	1.51	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1910.....	4,897	2.51	2.69	21.9	19.7	3,022	75	67	5,296	1.51	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1911.....	4,288	2.51	2.69	21.9	19.7	3,022	75	67	5,296	1.51	1.39	.....	.....	.....	4,270	2.37	2.30	539	23	29	2,291	1.01	.93
1912.....	3,745	2.51	2.69	21.9	19.7	3,022	75	67	5,296	1.51	1.39				4,270	2.37	2.30	539	23	29	2,291	1.01	.93

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